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No. 18.

Proceedings

— OF THE —

Royal Military College Club Of Canada.

. . 1901 . .

INCORPORATED 1898.

Contents

Index	2
List of Officers	6
Proceedings Eighteenth Annual Meeting	7
Eighteenth Annual Dinner	16
Report of the Hon. Sec'y-Treasurer, 1901	19
Improvements in Targets for Miniature Ranges	18[illegible]
The MacPherson Patent Safety Switch and Frog	196
Bibliography of the Members of the Club, Part 2	206

The Chronicle Printing Co.

No. 18.

Physical & Applied Sci. Serials

Proceedings

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Contents

INDEX - - - - - - - - - - - - - - - - - - 2
LIST OF OFFICERS - - - - - - - - - - - - 6
PROCEEDINGS EIGHTEENTH ANNUAL MEETING - 7
EIGHTEENTH ANNUAL DINNER - - - - - - - 16
REPORT OF THE HON. SEC'Y-TREASURER, 1901 - 19
IMPROVEMENTS IN TARGETS FOR MINIATURE RANGES - - - - - - - - - - - - - - - - 185
THE MACPHERSON PATENT SAFETY SWITCH AND FROG - - - - - - - - - - - - - - - 196
BIBLIOGRAPHY OF THE MEMBERS OF THE CLUB, PART 2 - - - - - - - - - - - - - 206

THE CHRONICLE PRINTING CO.
QUEBEC.

Index

List of Officers..... 6

Proceedings Eighteenth Annual Meeting..... 7

Eighteenth Annual Dinner..... 16

Report of The Hon. Secretary-Treasurer, 1901... .. 19

Improvements in Targets for Miniature Ranges..... 185

The MacPherson Patent Safety Switch and Frog.... 196

Bibliography of the Members of the Club, Part 2.. 206

MAJOR ERNEST F. WÜRTELE, 18th Regiment,

President Royal Military College Club of Canada,

1902.

HON. SECRETARY-TREASURER ROYAL MILITARY COLLEGE CLUB OF CANADA,

1892-3-4-5-6-7-8-9-1900-1-2.

ILLUSTRATIONS

Page.

Major Ernest F. Wurtele, 18th Regiment..... 3

Victoria Rifles Armory..... 7

Montreal Hunt Club..... 16

The Distinctive Badge..... 34

The Mackay-Robinson-Stairs Memorial Brass..... 44

Medallion for the late Captain W. G. Stairs..... 58

Lieut.-Colonel R. Cartwright, C.M.G., R.C.R..... 69

Lieut.-Colonel G. Hunter Ogilvie, R.C.A..... 70

Lieutenant D. S. MacInnes, D.S.O., R.E..... 70

Major C. M. Dobell, D.S.O., The Royal Welsh Fusiliers..... 72

Captain G. N. Cory, D.S.O., The Royal Dublin Fusiliers..... 72

Lieut.-Colonel Sir E. P. C. Girouard, K.C.M.G., D.S.O., R.E..... 73

Lieut.-Colonel S. J. A. Denison, C.M.G., R.C.R..... 77

Lieut.-Colonel A. C. Macdonell, D.S.O., R.O..... 78

Major Henri A. Panet, D.S.O., R.C.A., R.M.C..... 80

Captain J. E. Leckie, D.S.O., C.M.R..... 81

Lieut.-Colonel G. E. Sanders, D.S.O., R.O..... 82

Blockhouse Construction, S.A., Beginning the work... 96

Blockhouse Construction, S.A., Completed in Eight Hours..... 97

Page.
Royal Military College and Hospital..... 157
Royal Military College, Power House..... 168
Royal Military College, Engines and Generators..... 169
Royal Military College, Battery Room..... 170
Royal Military College, Switch Board..... 171
The late Captain J. H. Laurie, Royal Lancaster Regiment..... 174
The late Frank Maskelyne Lockhart Gordon..... 175
The late Charles Frederick William Thomas..... 176
Improvements in Targets, Cut of Targets..... 186
The MacPherson Patent Safety Switch and Frog..... 197
The MacPherson Patent Safety Switch and Frog..... 198
The MacPherson Patent Safety Switch and Frog..... 200
The MacPherson Patent Safety Switch and Frog..... 201

Royal Military College Club of Canada

OFFICERS, 1902.

PATRON.

THE HON. F. W. BORDEN, M.D., M.P., Hon. Colonel Canadian Army Medical Corps and Minister of Militia and Defence..... OTTAWA, ONT.

HON. PRESIDENT.

LIEUT.-COLONEL R. N. R. READE, Commandant, Royal Military College of Canada..... KINGSTON, ONT.

PRESIDENT.

MAJOR ERNEST F. WÜRTELE, 18th Regiment..... QUEBEC, QUE.

VICE-PRESIDENTS.

MAJOR C. C. VANSTRAUBENZEE, R.A., R.M.C..... KINGSTON, ONT.
LIEUTENANT A. E. DOUCET, R.O..... QUEBEC, QUE.

HON. SECRETARY-TREASURER.

MAJOR ERNEST F. WÜRTELE, 18th Regiment..... QUEBEC, QUE.

HON. SOLICITOR.

LIEUTENANT F. B. OSLER, R.O..... TORONTO, ONT.

MANAGING COMMITTEE.

CAPTAIN DUNCAN MACPHERSON, R.O..... MONTREAL, QUE.
MAJOR HENRI A. PANET, D.S.O., R.C.A., R.M.C.... KINGSTON, ONT.
HON. MAJOR PAUL WEATHERBE, Brighton Engineers..... OTTAWA, ONT.
LIEUTENANT D. C. CAMPBELL, R.O..... OTTAWA, ONT.
LIEUT.-COLONEL R. CARTWRIGHT, C.M.G., R.C.R. OTTAWA, ONT.

PROCEEDINGS

OF

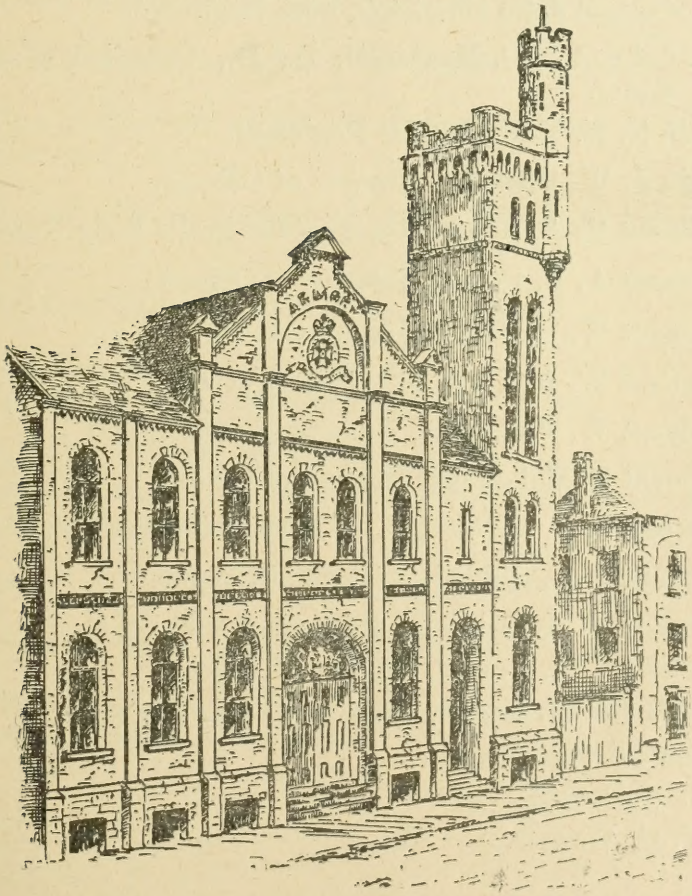
EIGHTEENTH ANNUAL MEETING

OF THE

Royal Military College Club

OF CANADA.

Held at Montreal, P.Q., at the Victoria Rifles Armoury, on Saturday, the 26th April, 1902.



At which were present :

Major C. C. vanStraubenzee, R.A., R.M.C., Vice-President.

Major Ernest F. Wurtele, 18th Regiment, Hon. Secretary-Treasurer.

Captain D. MacPherson, R.O., Member of the Managing Committee.

Lieut.-Colonel G. A. S. Hamilton, 3rd Regiment.

Lieut.-Colonel John Houliston, 86th Regiment.

Lieut.-Colonel A. C. Macdonell, D.S.O., Canadian Mounted Rifles.

Captain R. M. Courtney, 1st Regiment.

Captain J. W. Domville, Reserve of Officers.

Lieutenant R. A. Brock, Governor-General's Body Guard.

Lieutenant A. E. Doucet, Reserve of Officers.

Lieutenant W. Harty, Reserve of Officers.

Lieutenant W. B. Kingsmill, 10th Regiment.

Lieutenant W. McConkey, Reserve of Officers.

Lieutenant B. McLennan, Reserve of Officers.

Lieutenant J. F. McParland, Reserve of Officers.

Lieutenant J. A. Riddell, Reserve of Officers.

Lieutenant H. M. Rathbun, Reserve of Officers.

Lieutenant R. P. Rogers, Reserve of Officers.

Lieutenant A. M. Russel, Reserve of Officers.

Mr. Randall Davidson.

Mr. E. McDougall.

Mr. W. G. Warner.

The Meeting was called to order at 10.30 A.M., by Major C. C. vanStraubenzee, R.A., R.M.C., Vice-President.

Moved by Captain J. W. Domville, R.O.,

Seconded by Lieutenant A. E. Doucet, R.O.,

That the Minutes of the last Annual Meeting, as printed, be accepted as read.—Carried.

Moved by Lieutenant J. A. Riddell, R.O.,

Seconded by Lieutenant A. E. Doucet, R.O.,

That the Minutes of the last Annual Meeting be adopted.—Carried.

Moved by Lieut.-Colonel G. A. S. Hamilton, 3rd Regiment,

Seconded by Lieutenant J. A. Riddell, R.O.,

That Lieutenant A. E. Doucet, R.O., and Capt. J. W. Domville, R.O., be elected Scrutineers.—Carried.

Major Ernest F. Würtele, 18th Regiment, the Hon. Secretary-Treasurer, presented his Annual Report, and gave a general account of the same.

Moved by Lieutenant W. McConkey, R.O.,

Seconded by Lieutenant W. Harty, R.O.,

That the Annual Report of the Hon. Secretary-Treasurer be adopted as read.—Carried.

———

The Annual Report of the Auditors was read by Lieut. A. E. Doucet, R.O., and is submitted herewith :—

AUDITORS' REPORT.

QUEBEC, 24th APRIL, 1902.

To the President and Members,

Royal Military College Club of Canada.

GENTLEMEN,

We have audited the Books and Accounts of the Royal Military College Club of Canada, for the year ending 31st December, 1901, and beg to report as follows :—

1st. We have verified the Cash payments with the vouchers.

2nd. The receipts have also been verified, and the Cash and the Cash Book additions found correct; the balance, amounting to Seven Hundred and Sixty-Seven Dollars and Eighty-One Cents ($767.81), agrees with the Bank Pass Book and Cash in hand.

3rd. The additions of the Journal have been checked and the entries ledgerized, as well as the Cash Book.

4th. The Revenue Account has been checked and the Statement of Receipts and Expenditure found correct.

5th. The Balance Sheet shows a correct Statement of the Books of the Club, as at 31st December, 1901.

We have the honour to be,
Gentlemen,
Your obedient servants,

T. BENSON,
Lieut.-Col. R. C., G. A.

A. E. DOUCET,
Lieut. R. O.

Moved by Lieutenant J. F. McParland, R.O.,

Seconded by Lieutenant W. Harty, R.O.,

That the Report of the Auditors be adopted.—Carried.

Moved by Captain Duncan MacPherson, R.O.,

Seconded by Mr. W. G. Warner,

That this Meeting of the Royal Military College Club of Canada, express its sincere sympathy with the family of the late Captain J. H. Laurie, Royal Lancaster Regiment, who was killed in action in South Africa whilst in the performance of his duty in the field.—Carried.

Moved by Lieutenant B. McLennan, R.O.,

Seconded by Lieutenant J. F. McParland, R.O.,

That this Meeting of the Royal Military College Club of Canada, express its sincere sympathy with the family of the late Mr. F. M. L. Gordon, who died in Toronto in the month of August last, at the early age of 26 years.—Carried.

Moved by Lieutenant W. Harty, R.O.,

Seconded by Lieutenant J. A. Riddell, R.O.,

That this Meeting of the Royal Military College Club of Canada, express its sincere sympathy with the family of the late Mr. C. F. W. Thomas, who died in Quebec in September last, aged 30 years.—Carried.

Moved by Major Ernest F. Würtele, 18th Regiment.

Seconded by Captain R. M. Courtney, 1st Regiment.

That the Hon. F. W. Borden, M.D., M.P., Hon. Colonel Canadian Army Medical Corps and Minister of Militia and Defence, be invited to continue as Patron of the Club for the ensuing year.—Carried.

Moved by Major C. C. vanStraubenzee, R.A., R.M.C.,

Seconded by Captain D. MacPherson, R.O.,

That Lieut.-Colonel R. N. R. Reade, h.p., Commandant Royal Military College of Canada, be invited to become Hon. President of the Club for another year.—Carried.

The Hon. Secretary read a letter he had received from the Hon. F. W. Borden, Minister of Militia and Defence, authorizing the publicity of a grant of $100.00 to the Club.

It was moved by Captain D. MacPherson, R.O.,

Seconded by Captain R. M. Courtney, 1st Regiment,

That the thanks of the Club be extended to the Hon. F. W. Borden, M.D., M.P., for the interest manifested by him in the welfare of the Club, as evidenced by the grant of $100.00 in its favour.—Carried.

Moved by Captain D. MacPherson, R.O.,

Seconded by Lieut. A. E. Doucet, R.O.,

That the usual grant from Club funds be made to Major Ernest F. Würtele, for his services as Hon. Secretary-Treasurer.—Carried.

The following resolution was received by the Hon. Secretary the morning of the Meeting :—

Moved by Lieut. R. McColl, R.O.,

Seconded by Lieut. D'Arcy Weatherbe,

WHEREAS, the Government of Canada, under the late Hon. A. McKenzie, established the Royal Military College at Kingston, with the idea of giving a military education of the highest character, combined with a Civil Engineering course, to young Canadians as the foundation of the military system of Canada, and,

WHEREAS, the extraordinary success of the graduates, both in military and civil life, has proved beyond doubt the value of this institution and the wisdom of the Government in its establishment, and,

WHEREAS, owing to the apathy of the public generally in military matters, until the last few years the graduates of this institution have received little recognition from the Government, and have not been utilized as they might have been in the building up of an effective military system in Canada, and,

WHEREAS, during the last few years, the necessity and value of a proper military system has been impressed by current events upon the minds of the people and Government of Canada,

Therefore resolved,

That this Club appoint a Committee to interview the Government with the idea of formulating some scheme for the utilization of graduates in the new system.—Carried.

The Scrutineers reported the result of the election of Officers as follows :—

For President, and Hon. Secretary-Treasurer :

Major Ernest F. Würtele, 18th Regiment, Quebec.

For Vice-Presidents :

Major C. C. vanStraubenzee, R.A., R.M.C., Kingston, Ont.

Lieutenant A. E. Doucet, R.O., Quebec, Que.

For Hon. Solicitor :

Lieutenant F. B. Osler, R.O., Toronto, Ont.

For Managing Committee:

Captain Duncan MacPherson, R.O., Montreal, Que.

Major Henri A. Panet, D.S.O., R.C.A., R.M.C., Kingston, Ont.

Hon. Major Paul Weatherbe, Brighton Engineers, Ottawa, Ont.

Lieutenant D. C. Campbell, R.O., Ottawa, Ont.

Lieut.-Colonel R. Cartwright, C.M.G., R.C.R., Ottawa, Ont.

Moved by Lieutenant B. McLennan, R.O.,

Seconded by Captain R. M. Courtney, 1st Regiment,

That the thanks of the Club be tendered to the Scrutineers for their services.—Carried.

Moved by Lieutenant A. E. Doucet, R.O.,

Seconded by Lieutenant B. McLennan, R.O.,

That the thanks of the Club be extended to Lieut.-Colonel G. A. S. Hamilton, Commanding 3rd Regiment, for his kindness in having placed the use of the Armoury of his Regiment at the disposal of the Club for their Annual Meeting.—Carried.

Moved by Lieutenant W. McConkey, R.O.,

Seconded by Lieutenant W. Harty, R.O.,

That the thanks of the Club be extended to Major G. R. Hooper, R.O., and Lieutenant R. A. Brock, Governor General's Body Guard, for their kindness in placing the use of the Montreal Hunt Club Building at the disposal of the Club for their Annual Dinner, and to the former for his kindness in providing an electric car to take the Members to and from the Hunt Club on the same occasion.—Carried.

Moved by Lieutenant R. A. Brock, Governor General's Body Guard,

Seconded by Lieutenant A. E. Doucet, R.O.,

That the thanks of the Club be tendered to the President and Officers of the Club, for their work in the interests of the Club during the past year.—Carried.

The Meeting then adjourned.

THE EIGHTEENTH ANNUAL DINNER

Through the kindness of Major G. R. Hooper and Lieutenant R. A. Brock, the Annual Dinner took place at the Montreal Hunt.

Members were taken to and from the Hunt Club by special electric car placed at their disposal by Major G. R. Hooper.

In the absence of the President in England, the chair was taken by Major C. C. vanStraubenzee, R.A., R.M.C., Vice-President.

Owing to the preparation of the 4th Contingent for South Africa, the Club were deprived of the pleasure of having Official Guests from the Head-Quarters' Staff, and for other reasons, and for the first time there were no Official Guests present.

Nineteen members were present with four private guests.

Letters of regret for inability to attend were read by the Hon. Secretary, from the following:- The Hon. F. W. Borden, M.D., M.P., Hon. Col. Canadian Army Medical Corps, Minister of Militia and Defence; Colonel L. F. Pinault, U.L., Deputy Minister of Militia and Defence; Colonel the Right Hon. M. Lord Aylmer, Adjutant-General; Colonel Wm. H. Cotton, Quarter-Master-General; Major-General R. H. O'Grady-Haly, C.B., D.S.O., President R.M.C., and Commanding the Canadian Militia; Lieut.-Col. R. N. R. Reade, Commandant R.M.C.; Colonel C. W. Drury, C.B., A.D.C., R.C.A.; Lieut.-Colonel G. T. A. Evanturel, A.D.C., 9th Regiment; Principal MacCabe, M.A., LL.D.; Members of the Board of Visitors R. M. College; Lieut.-Colonel S. C. McGill and Prof. Forshaw Day; Lieut.-Colonel Gordon, D.O.C., 5th Dist.; Lieut.-Colonel O. C. C. Pelletier, D.O.C., 7th Dist.; Battalion Sergt.-Major Edgar, R.M.C., Hon. Member.

The usual toast list was gone through.

A pleasing feature of the dinner was the arrival of Lieut.-Colonel A. C. Macdonell, D.S.O., Commanding a Regiment for South Africa, who made a special trip from Ottawa to be present at the Dinner.

Major Ernest F. Würtele proposed the health of Lieut.-Col. Macdonell, and which was replied to in a most interesting account of the doings of the Members of the Club connected with the North-West Mounted Police.

The Eighteenth Annual Dinner was closed at about midnight, and although the numbers present were less than in former years, all present declared the occasion to have been a most enjoyable one.

Annual Report

OF THE

Hon. Secretary-Treasurer

OF THE

Royal Military College Club of Canada

For the year 1901.

INDEX TO ANNUAL REPORT.

		Page.
No. 1.	General Review	23
No. 2.	Membership	26
No. 3.	Financial Statement	28
No. 4.	Audit and Yearly Statement	30
No. 5.	Correspondence, etc	32
No. 6.	The Scrap Book	33
No. 7.	The Distinctive Badge	34
No. 8.	Donations to the Club	35
No. 9.	Employment	35
No. 10.	Military Notes	36
No. 11.	General Notes	41
No. 12.	The Mackay-Robinson-Stairs Memorial Brass	43
No. 13.	Memorial Fund Boer War, 1899-1901	45
No. 14.	McGill Presentation Fund	45
No. 15.	The Reference Book	48
No. 16.	The Forshaw-Day Painting Fund	49
No. 17.	Military Reconnaissance	53
No. 18.	Inter-College Revolver and Rifle Competition—Sandhurst-Kingston	56
No. 19.	Medal of the Stanley Expedition	57
No. 20.	Fourth Military Tournament, Toronto	60
No. 21.	Our Patron and Hon. Member	62
No. 22.	The South African Constabulary	63
No. 23.	The 2nd Regiment Canadian Mounted Rifles	65
No. 24.	South African Despatches	66
No. 25.	China Despatches	68
No. 26.	South African Honours	69
No. 27.	Ceremonies Attending the Conferring of Orders upon Members	73

Page.
No. 28. The South African War, 1899-1901..... 82
No. 29. Our Casualties in the Boer War..... 93
No. 30. Blockhouse Construction in South Africa..... 96
No. 31. Banquet and Presentation to Lieut. G. E. Laidlaw, Late Strathcona's Horse..... . 98
No. 32. Local Dinner at Bedford, N. S..... 100
No. 33. The Royal Reviews..... 105
No. 34. The Canadian School of Musketry..... 107
No. 35. R. M. C. Ex-Cadets as Field Officers..... 109
No. 36. War Services of Members in the Army, etc..... 111
No. 37. Appointments, Promotions, etc., for 1901..... 126
No. 38. List of Ex-Cadets Holding Commissions, etc., 1st January, 1902 138
No. 39. The Royal Military College of Canada..... 155
No. 40. Extension of Term of Instruction, etc., at College..... 164
No. 41. Electric Plant at the Royal Military College. 167
No. 42. The North-West Mounted Police..... 172
No. 43. The Death Roll..... 174
No. 44. The Canadian Society of Civil Engineers..... 177
No. 45. Inventions..... 179
No. 46. Bibliography of the Members of the Club..... 181
No. 47. In Memoriam..... 182

ANNUAL REPORT

OF THE

HON. SECRETARY-TREASURER

OF THE

Royal Military College Club of Canada,

FOR THE YEAR 1901

To the President, Officers and Members,
Royal Military College Club of Canada.

GENTLEMEN,

No. 1, GENERAL REVIEW.

In presenting the Report of the year ended the 31st December, 1901, it affords an opportunity to place before the Members as much information as could be obtained, during the year in question, by the Officers of the Club.

It will, doubtless, prove of interest to the Members, widely scattered throughout the world, to learn of some of the doings of those with whom they have been in close touch as Gentlemen Cadets, or have heard of them as their seniors or juniors at the College, in Kingston.

South Africa has been the means of enabling a very large percentage to take part in and serve in the War, and the results are indeed most satisfactory and pleasing to all concerned. The Honours already granted include those of a Member of the Most Distinguished Order of St. Michael and St. George, Companions of the said Most Distinguished

Order and several Companions of the Distinguished Service Order. In addition to these orders several Members have been rewarded by promotion to Brevet rank in the Imperial and Canadian Services.

A number have been mentioned in despatches in connection with the Wars in South Africa and China.

We have endeavoured to obtain correct accounts of the presentation of the Insignia of the Distinguished Service Order to those who were granted this honour, which will be found under a separate heading in this report.

The ceremony of placing Memorial Brasses in the Educational Block of the College, took place in April, and from all indications it appears that the selection of the College for Memorials of this sort has met with general approval from the Members. Future efforts in this direction will be dealt with in a similar manner.

With respect to the organization of the South African Constabulary and the Second Canadian Mounted Rifles, in both cases we have had representatives connected with the same, and in cases where Commissions were not available they proceeded in the capacity of Non-Commissioned Officers and Privates.

More than the usual calls have been made upon the Members, due to various circumstances, for subscriptions to funds, and which have been met in a most hearty and substantial way, and permitted the Club to do some excellent work in this respect.

As usual a number of notes are given regarding Members in Civil as well as in Military life. The former is smaller owing to the difficulty of obtaining notes, whereas the Military are compiled from a number of Service publications.

Appointments and Promotions continue to increase in all branches of the Service. Selections made for Staff duties, etc.

Changes have taken place at the College, a new Commandant sent out to take command, and changes in the Instructional Staff. Improvements have also been made by the Government, by the addition of a building for a hospital, etc. The Gentlemen Cadets attended the Toronto Military Tournament, and as in former years gave an excellent account of themselves, and in September took part in the Quebec Review in connection with the visit of the Prince of Wales.

This year we will publish the second part of the Bibliography of the Members of the Club, with the hope that it may assist in obtaining further particulars for subsequent issues.

We have to mourn the loss of three Members, who died during the year.

An Inter-College Revolver and Rifle Competition took place between the Royal Military Colleges of Kingston and Sandhurst. This was the first occasion and the honours evenly divided by winning one each.

The Club took up the question of the age of admission of Cadets to the College, the fees and length of service thereat with the Commandant and hope for beneficial results.

Employment has again been secured for younger members of the Club, and in some instances there were more vacancies than applicants. This feature of the work of the Club is a most important one and deserves every encouragement.

Having briefly outlined the principal events of the year, we will submit in detail, for the information of all concerned, the usual report under various headings.

No. 2, Membership.

But two new Members were added to the Club during the year. This indicates the necessity of individual action among the Members. It is quite impossible for the Officers to follow the later Graduating Classes, but on the other hand they frequently come into contact with Members, who should take measures to propose their names to the Committee. Three Members were transferred from Ordinary to Life Membership, and one Ordinary Member, for the first time, has commenced his transfer on the Instalment principle.

The proportion of Members in arrears for their Dues was slightly reduced, the percentage being 61% during the year, as compared with 64% the previous year.

A loss of three Members occurred during the year, and as we gained but two, leaves a net loss of one. The first time in the history of the Club.

Statement of Membership.

1st January, 1901. Total Membership this date		307
Enrolled during the year 1901 :		
Ordinary Members.....		2
		309
Less. Loss by death		3
Total Membership, 1st January, 1902.....		306
Subdivided as follows :—		
Life Members.....	25	
Ordinary Members	281	
		306
Members in good standing.....	117	
Members in arrears.....	189	
		306

List of new Members for the year 1901 :—

ORDINARY MEMBERS.

Lieutenant R. H. Harcourt, R.O.
2nd Lieutenant, H. S. Stewart, R.A.

TRANSFERRED FROM ORDINARY TO LIFE MEMBERSHIP.

Lieut.-Colonel H. S. Greenwood, 3rd Dragoons.
2nd Lieut. G. B. Brown, Indian Staff Corps.
Lieutenant H. D. Lockhart Gordon, R.O.

TRANSFERRING TO LIFE MEMBERSHIP, INSTALMENT PLAN.

Lieutenant A. G. T. LeFevre, R.O.

The attention of Members is directed to the change made in the Constitution a few years ago, whereby Life Membership can be obtained for $30.00, with privilege of making three Annual instalments of $10.00 each, in lieu of the payment of $25.00 in one sum. Further particulars can be had upon application to the Hon. Secretary-Treasurer.

No. 3. FINANCIAL STATEMENT.

The financial transactions for the year have been more satisfactory than the previous one. Subscriptions received for Life and Ordinary Membership, show a marked improvement. This has permitted of a substantial reduction in our Active Liabilities; this, however, does not indicate that we are free of debt. The Active Liabilities at the close of the year being $111.62, about one-half at the corresponding period of the previous year. In order to provide for this sum, and to permit of the publication of Proceedings of a larger size than usual, as well as for the necessary expenses of administration, Members are requested to give the matter of their Dues to the Club, their early and favourable consideration. The subscriptions called for in aid of several funds, has been liberally responded to and is to date very satisfactory.

The Receipts and Expenditure for the year are submitted herewith :—

STATEMENT OF THE RECEIPTS AND EXPENDITURE

For the Year 1901.

RECEIPTS.

1st Jan., 1901.

To Balance this date					$921.86
" Life Subscriptions					85.00
" Annual Subscriptions for the year			1894	$ 2.00	
" do	do	do	1895	4.00	
" do	do	do	1896	8.00	
" do	do	do	1897	14.00	
" do	do	do	1898	22.00	
" do	do	do	1899	28.00	
" do	do	do	1900	69.00	
" do	do	do	1901	153.00	
" do	do	do	1902	18.00	
" do	do	do	1903	4.00	
					322.00
" Interest on Deposit in Union Bank				$16.85	
" Difference in Exchange on remittances				1.56	
					18.41
" Sale of Distinctive Badges				3.25	
" Sale of Distinctive Ribbons				3.60	
					6.85
" Outstanding Accounts collected					26.00
" Subscriptions McGill Presentation Fund					93.80
" Subscriptions Memorial Fund, Mackay-Robinson Stairs				$ 7.00	
" Interest upon above Fund				5.00	
					12.00
Carried forward					$1,185.92

Brought forward....		$1,485.92
To Interest on Memorial Fund, South Africa, 1899-1901.....		0.90
" Reference Book Account, 2nd Edition.	$34.00	
" Interest on above Account.....	0.66	
		34.66
" Subscriptions Forshaw-Day Painting Fund.....	134.00	
" Interest upon above Fund.....	0.07	
		134.07
		$1,655.55

EXPENDITURE.

By following payments :—		
By Ryrie Bros., Toronto, Distinctive Badge....		$ 3.00
" Ernest F. Würtele, Grant as Hon. Secretary-Treasurer.....		100.00
" Postage on Correspondence and Communications.....		25.85
" Half Tone Cuts for Proceedings.....		11.43
" Stationery.....		4.85
" Deficit Annual Dinner, 1901.....		42.00
" Telegrams, General Expenses, etc., etc.....		31.35
" Chronicle Printing Co., for Proceedings.....		211.90
" McGill Presentation Fund.		106.00
" Mackay-Robinson-Stairs Memorial Fund.....		208.96
" Forshaw-Day Painting Fund.....		111.00
" E. Vincent, Printing.		31.40
		$ 887.74
By Balance as follows :—		
Cash in Banks.....	$761.93	
Cash in hand.....	5.88	
		767.81
		$1,655.55

Cash Balance subdivided as follows :—

On Special Deposit :

25 Life Subscriptions @ $25.00.....	$625.00		
One Instalment Life Suscription.....	10.00		
		$635.00	
South African Memorial Fund....		31.70	
Reference Book Fund.....		52.16	
Forshaw Day Painting Fund....		43.07	
			761.93
Available for general use.....			5.88
			$ 767.81

STATEMENT OF ACTIVE ASSETS AND LIABILITIES.

Active Liabilities :—

Chronicle Printing Co.—Proceedings.....		$137.50

Active Assets :—

Accounts due by Members.....	$ 20.00	
Cash available for general use...	5,88	
		25.88
Balance to Debit of Liabilities....		$111.62

No. 4, Audit and Yearly Statement.

In accordance with the By-Laws, two Auditors were appointed, who made a careful examination of the Books, Vouchers, etc., and have prepared a Report to be submitted, as usual, at the Annual Meeting of the Club.

The Yearly Statement of the Books is submitted herewith :—

YEARY STATEMENT.

TAKEN 1ST JANUARY, 1902.

Dr.		*Cr.*	
Expense Account.....	$ 13 50	Chronicle Printing Co...	$137 50
Stationery do	40 00	Memorial Fud. S. Africa.	31 70
Cash..... do	767 81	Day Painting Fund.....	63 07
Incidental.. do	40 00	Life Membership Acct..	635 00
College Song do	17 25	Reference Book do ..	52 16
Distinctive Ribbon Act.	25 05		
Profit & Loss Account.	15 82		
	$919 43		$919 43

PROFIT AND LOSS ACCOUNT.

Dr.		*Cr.*	
General Expense Act...	$ 31 35	Interest Account.....	$ 18 41
Printing do ...	59 41	Distinctive Badge Acct...	0 25
Stationery do ...	4 85	Annual Subs. Act. 1894.	2 00
Postage do ...	25 85	do do do 1895.	4 00
Salary do	100 00	do do do 1896.	8 00
Annual Dinner do ...	42 00	do do do 1897.	14 00
Balance from 1900.....	93 02	do do do 1898.	22 00
		do do do 1899.	28 00
		do do do 1900.	69 00
		do do do 1901.	153 00
		do do do 1902.	18 00
		do do do 1903.	4 00
			340 66
		Balance to debit.....	15 82
	$356 48		$356 48

No. 5, Correspondence, Etc.

The following information is submitted to the Members. The correspondence, strange to say, exactly represented the number exchanged in the preceding year. The number of Copies of the Proceedings and Official Communications were in excess, as an endeavour was made to interest all Ex-Cadets that could be found.

Record of Correspondence :-

Number of letters written.....	447
Number of letters received.....	374
Total number of letters exchanged during the year 1901.....	821

Official Communications issued :

Official Communication No. 1, 1901.....	262
Official Communication No. 2, 1901.....	262
Proceedings of Meeting, etc.....	383
Constitution and By-Laws.....	2
Reference Books.....	2
Addresses registered during the year.....	37
Addresses supplied to Members....	18

No. 6, The Scrap Book.

It is to be regretted that there is a decrease in the number of contributions to the Scrap Book. The importance of keeping the Secretary conversant with the doings of individual Members should not be overlooked. In many cases no other means exist of obtaining information of value to the Club. The attention of Members is again drawn to this matter and they are requested to comply with the same.

The following have contributed to the Scrap Book the number of pieces set opposite their respective names :—

Major Francis Joseph Dixon, R.O.....	12
Major F. M. Gaudet, R.C.A.....	1
Mr. W. A. Jameson.....	5
Lieut. A. K. Kirkpatrick, R.O.....	33
Lieut. George E. Laidlaw, R.O.....	1
Major H. A. Panet, D.S.O., R.C.A., R.M.C.	1
Major J. L. Weller, R.O.....	1
Major Ernest F. Würtele, 18th Reg't.....	13
Total.....	67

No. 7, The Distinctive Badge.

A Distinctive Badge was purchased by the following Member :—

Pin.

Lieut. C. R. F. Coutlee, R.O.

Members desiring to obtain Distinctive Badges are requested to communicate with the Secretary. The cost is as follows :—

Pins	$ 3.25 each.
Watch Charms...	3.25 do
Studs.....	2.00 do
Cuff Links.....	6.50 pair.

The Distinctive Badge is as follows :—A dexter arm in armour embowed in a hand holding three maple leaves; enamelled appropriately in black, leaving the studding of the armoured arm in relief.

No. 8. Donations to the Club.

The following contributions were received during the year :—

Department of Militia & Defence.....	Militia Lists, Reports and General Orders.
Canadian Military Institute...	Selected Papers, No. 10, 1900.
Lieut. C. R. F. Coutlée, R.O.	"The Soulanges Canal Works, Canada."
Major Francis Joseph Dixon, R.O.	"Extracts from the London Gazette."
Capt. E. T. B. Gilmore, R.O.	"Maple Leaves in Khaki."
Lieut.-Col. H. S. Greenwood, 3rd Dragoons.....	Blue Prints, Railway Maps, South Africa.
Mr. W. A. Jameson.....	Map of British Columbia.
Lieut. G. E. Laidlaw, R.O..	Archæological Reports, 1900 and 1901.
Lieut. Jas. White, F.R.G.S...	"Altitudes in the Dominion of Canada with a Relief Map of North America."

No. 9. Employment.

Four Members notified vacancies in Engineering Works and one application was received. Through the efforts of the undermentioned Members employment was secured for those desiring the same :—

Lieut. R. W. Leonard, R.O.,

Cape Breton Railway Company.

Lieut. R. McColl, R.O.,

Halifax & South-Western Railway Company.

In order to make as complete a record as possible in connection with this most important part of the work of the Club, Members securing the same are requested to notify the Hon. Secretary accordingly. It is needless to add that the applicant for employment secured the same.

No. 10. Military Notes.

Captain B. W. S. vanStraubenzee, h.p., was appointed Instructor, at the Royal Military College, England, temporarily, in October.

Captain George M. Duff, R.E., upon his return to India from Sick Leave, was posted to the Military Works, Bombay Command, in October.

Captain W. F. Tilley, R.E., was permanently transferred to Hyderabad, Sinde, for duty in the Public Works Department, October.

Lieut. G. B. Brown, 11th Bengal Infantry, was transferred to the 5th Punjab Infantry, Punjab Frontier Force, and joined at Miranshah Tochi Valley, N.W.F., on the 8th of July.

Lieut. G. F. Osborne, R.E., Commanding No. 2 Section, Indian Submarine Mining Company, was temporarily transferred to the Office of the Inspector of Submarine Defences in India at Poona, in June, for three months.

Captain C. B. Farwell, R.E., Garrison Engineer, Military Works, Bombay, was granted one year's leave, on private affairs to Canada, June.

Captain H. C. Nanton, R.E., was appointed an Assistant Director of Railways in South Africa, with the local rank of Major whilst so employed, August.

Lieut. W. Agnew Moore, 67th Co., R.G.A., was stationed at Hawkin's Island, Bermuda, in connection with the guarding of the Boers held in captivity there.

Lieut. F. H. Courtney, R.G.A., No. 5 Company, Southern Division, was selected to attend the long course of instruction in Gunnery in England.

2nd Lieut. G. W. Denison, R.E., left for British Central Africa, in March, for special duty under the Foreign Office.

At the 16th Annual Meeting of the Ontario Artillery Association, held at the Canadian Military Institute, Toronto, Mr. L. Homfray Irving was re-elected Secretary.

The following Supernumerary Officer was posted to the Bombay Command, with a view to subsequent appointment to the Indian Staff Corps, was attached for one year's duty to the Battalion specified :—

2nd Lieut. J. R. Jago, R.F.A., to 1st Battalion West Yorkshire Regiment.

Captain P. G. Twining, R.E., was ordered to China at the request of Lieut.-General Gaselee for employment on the Railway, in February.

In March, Captain B. H. O. Armstrong, R.E., was selected to take charge of the works for the construction of four new forts to be erected for the better defence of Cape Town. He was for a number of years in charge for the fortifications of Sierra, Leone., on the West Coast of Africa.

On the 2nd of February the following members of the Club were present at the Memorial Service to pay their respects to the memory of our late Queen :—

Major A. H. vanStraubenzee, R.E.
Major S. J. A. Denison, C.M.G., R.C.R.

At the Annual Meeting of the Canadian Military Institute, held in Toronto on the 21st of January, Mr. L. Homfray Irving, R.L., was elected a Member of the Committee.

Major W.C.G. Heneker, Connaught Rangers, was in command of a successful expedition, in the Ubiom country, to the north of Opobo, in Southern Nigeria. A truculent tribe had closed the mail route and threatened to kill any white man and soldiers who appeared. Major Heneker was ordered to take two Companies, one 7 pounder, one Maxim and one rocket-tube, and to proceed to the place, and there bring the tribe to its proper state of submission. This was achieved, with twenty casualties only, after twelve towns had been attacked and destroyed.

At the Staff Camp of Instruction, 1st and 2nd Brigades, London, Major S. J. A. Denison, C.M.G., R.C.R., was Brigade Major.

Annual Training, 1901, Field Artillery Division, Dereronto, July.

Statistical Officer, Captain E. W. Hubbell, R.O.

"B" Battery, Fd. Div. R.C.A., Capt. & Bt.-Lieut.-Col. G. Hunter Ogilvie.

At Ottawa, on the 19th of December, Lieut.-Colonel V. B. Rivers, Chairman of the Medals' Board, who had been suffering for some time from tuberculosis of the right knee, had the limb amputated. At a Medical consultation it was decided that this course was necessary. The operation was performed at the Protestant General Hospital and proved successful.

Captain F. E. L. Barker, R.F.A., was appointed Adjutant of the 17th Brigade Division, Royal Field Artillery, at Aldershot, in July.

The following were successful candidates at the Army Examinations for promotion :—

"D" Distinguised in any subject.

Lieutenant E. F. Osler, Middlesex Regiment.
a. and b. for promotion.

Lieutenant W. C. Dumble, R.E.

Military Law, Tactics, and Organization and Equipment.

D. in Organization and Equipment.

Lieutenant H. R. Payzant, Lancashire Fusiliers.

Organization and Equipment.

Lieutenant R. C. Keith, R.A.
Lieutenant A. Piddington, R.A.
Lieutenant R. W. Burrill, R. A.
} a. and b. for promotion.

Captain C. C. vanStraubenzee, R.F.A.

c. d. and g., D. in Organization and Equipment.

Captain Vernon L. Beer, R.G.A.

c. d. and g. for the rank of Captain.

Lieutenant C. W. W. McLean, R.A.

a. and b. for promotion.

2nd Lieut. E. C. Baker, R.E.
2nd Lieut. F. H. W. Archbold, R.E.
2nd Lieut. G. B. Johnson, R.E.
2nd Lieut. M. L. B. H. Lambert, A.S.C.
} a. and b. for promotion.

Major A. H. vanStraubenzee, R.E., passed the tactical test for promotion to the rank of Lieutenant-Colonel.

Major E. V. O. Hewett, R. W. Kent Regt., was a Member of a Board to examine Captain C. C. vanStraubenzee, R.A. (local Major) in subjects c. to g. for promotion, in May. The proceedings were forwarded to the Adjutant General Headquarters for transmission to the Officer Commanding His Majesty's Troops in Canada.

Major J. I. Lang, C.M.G., R.E., has been permitted to assume the surname of Lang-Hyde.

Major F. M. Gaudet, R.C.A., Superintendent of the Dominion Arsenal, was appointed a member of a Committee on Rifles, which met in June, to report upon the Ross Rifle.

Lieut.-Colonel S. J. A. Denison, C.M.G., R.C.R., held the position of A.D.C. to H.R.H. the Prince of Wales from his arrival at Quebec in September until his departure from Halifax, on the 23rd October.

The following Officer passed the examination herein stated :—

Captain W. B. Lesslie, R.E., Urdu., Higher Standard.

No. 11. General Notes.

Captain J. L. H. Bogart, of Kingston, was appointed Township Engineer of the Township of Pittsburg, in May, 1901, and Township Engineer of Wolf Island Township, on 4th November of the same year.

James White, Geographer, Department of the Interior, Ottawa, was elected a Fellow of the Royal Geographical Society in January, 1900.

E. M. Bland was appointed Assistant Engineer on the Eastern Section of the Delagoa Bay Railway, with head-quarters at Kaapmuiden Jct., Transvaal Colony.

Captain Duncan MacPherson, R.O., was elected a Member of the Council of the Canadian Society of Civil Engineers, at the Annual Meeting in January.

Major R. C. Laurie, upon his return from South Africa, was appointed District Engineer for Central Alberta, Public Works District, April.

At a General Meeting of the Royal Society of Canada, held on the 21st of May, they honoured Mr. Lawrence M. Lambe, of the Geological Survey of Canada, by electing him a fellow of the Society. This is one of the highest honours a man of science can look forward to, and was granted in recognition of Zoological and Palæantological Works, Sec. IV. (Geological and Biological Sciences Section.) He is now entitled to the following letters after his name:—F.G.S., F.R.S.C.

Major J. L. Weller, the Chief Engineer of the Welland Canal, graduated with honours from the College. He started in as a Rodman in 1882, on the Trent Canal location survey, and has since been continuously in the employ of the Department of Railways and Canals. Was in charge of the construction of the Young's Point dam on the Trent Canal, principal assistant and afterwards resident Engineer on the enlargement of the Cornwall Canal, and Engineer in charge of the Port Colborne improvements. The experience gained on these works has embraced almost all of the different problems which arise in canal construction and operation. In 1898 he investigated the cause of failure of the New York and Ottawa Railway Bridge across the St. Lawrence. He invented and designed the Weller Launch Motor Reversing Wheel and Pneumatic Diaphragm Pump, now being manufactured by the St. Lawrence Motor Co., Limited, Cornwall.

Mr. A. E. Doucet, who was appointed Chief Engineer of the Quebec & Lake St. John Railway and of the Great Northern Railway of Canada, was born in Montreal in June, 1860. He graduated from the College and began his profession as Civil Engineer in 1880. Was Assistant Engineer on the C. P. R. until 1887, during which time he was on location and construction of the Algoma Branch and the main line around Lake Superior. Was on Active Service in the North-West Rebellion and was wounded and mentioned in Despatches. Was Assistant Engineer on the C. P. R. Lachine Bridge from April, 1885, to December, 1885, then Division Engineer on the C. P. R. between St. Philip and Iberville, P.Q., from December, 1885, to April, 1887. Went with R. G. Reid in 1887 as his Engineer, and remained with him until 1898. Employed on the construction of the Sault Ste. Marie Railway, including Bridge over the St. Mary River, from April, 1887, to December, 1887. On the Cape Breton extension of the I. C. R. from December, 1877, to March, 1890, and on the Newfoundland Railway from March, 1890, to July, 1898. In 1898 went to British Columbia as Chief Engineer of the Arrowhead and Kootenay Railway, remaining there till April, 1900. Then was engaged in revising the location of the C. P. R. main line in Assiniboia, and from Farnham, Que., to Newport, Vt. On 15th November, 1900, was appointed Chief Engineer of the Great Northern Railway of Canada, and of the Quebec & Lake St. John Railway.

No. 12. The Mackay-Robinson-Stairs Memorial Brass.

An account of the unveiling of this Brass having appeared in the Proceedings last issued, it but remains to submit the statement of Receipts and Expenditure connected therewith:—

STATEMENT OF RECEIPTS AND EXPENDITURE.

1901. **RECEIPTS.**

1st Jan.	To Balance on hand this date		$273 58
	" Additional subscriptions received:		
	Major A. H. vanStraubenzee, R.E.	$2 00	
	Mr. L. Homfray Irving, R.L.	5 00	
			7 00
	" Interest on Deposit in Union Bank		5 00
	Total Receipts		$285 58

EXPENDITURE.

By following payments:—	
By the Pritchard-Andrews Co., Ottawa.	
Brass Tablet	$200 00
Cuts of Brass Tablet	2 28
Placing Tablet in position	7 10
" Exchange on remittance in payment	0 66
" Express Charges	1 20
	$211 24
" Balance transferred to Printing Account	74 34
	$285 58

No. 13, Memorial Fund Boer War, 1899-1901.

It was not considered advisable to call for subscriptions for the above fund during the year, but to leave the matter until the following year, in consequence of which no additional amounts were received for this purpose.

The amount on hand at the close of the year being :—

1901.		
1st Jan.	To Balance on hand this date.....	$ 30 80
	" Interest on Deposit, Bank of Montreal	0 90
		$ 31 70

No. 14, McGill Presentation Fund.

An account of the Presentation to Lieut.-Col. McGill having appeared in the recently issued Proceedings, a financial statement only is now submitted :—

Additional List of Subscribers.

Lieut.-Colonel R. Cartwright, C.M.G., R.C.R . .	$ 3 00
Lieut.-Colonel H. S. Greenwood, 3rd Dragoons..	3 00
Lieut.-Colonel J. Houliston, 86th Regiment.....	2 00
Lieut.-Colonel G. Hunter Ogilvie, R.C.A.....	3 00
Major S. J. A. Denison, C.M.G., R.C.R.....	3 00
Major F. M. Gaudet, R.C.A.....	3 00
Major E. V. O. Hewett, R West Kent Regiment.	2 00
Major G. R. Hooper, R.O.....	3 00
Carried forward.....	$ 22 00

Brought forward	$ 22 00
Major R. E. Kent, 14th Regiment	3 00
Major R. C. Laurie, R.O	1 00
Major H. A. Panet, D.S.O., R.C.A	2 00
Major A. H. vanStraubenzee, R.E	2 00
Major C. C. vanStraubenzee, R.A	2 00
Hon. Major P. Weatherbe, Brighton Engineers.	3 00
Captain B. H. O. Armstrong, R.E	4 80
Captain V. L. Beer, R.A	3 00
Captain J. L. H. Bogart, 14th Regiment	3 00
Captain J. B. Cochrane, R.O	5 00
Captain H. A. Morrow, R.O	3 00
Captain D. MacPherson, R.O	2 00
Lieutenant W. B. Anderson, 97th Regiment	1 00
Lieutenant B. A. C. Caldwell, 14th Regiment	2 00
Lieutenant R. C. H. Cassels, R.O	5 00
Lieutenant A. E. Doucet, R.O	2 50
Lieutenant W. A. H. Kerr, R.O	2 00
Lieutenant A. K. Kirkpatrick, R.O	3 00
Lieutenant A. G. T. LeFevre, R.O	5 00
Lieutenant W. L. Matthews, 10th Regiment	2 00
Lieutenant B. McLennan, R.O	5 00
Lieutenant H. McM. Rathbun, R.O	1 00
Lieutenant F. D. Reid, R.O	2 50
Carried forward	$ 86 80

Brought forward	$ 86 80
Lieutenant W. H. Sullivan, R.C.....	2 00
2nd Lieutenant G. T. Hamilton, R A.....	1 00
Mr. F. W. Abbott.....	1 00
Mr. K. C. Cochrane.....	1 00
Mr. G. L. Mattice.....	2 00
Total.....	$ 93 80

STATEMENT OF RECEIPTS AND EXPENDITURE.

RECEIPTS.

1901. 1st Jan.	To Balance on hand this date	$ 44 00
	" Subscriptions in 1901, as per List....	93 80
		$ 137 80

EXPENDITURE.

By following payments :—

G. Seifert & Sons, Quebec,		
1 Oak Grandfather Clock, with Brass plate and inscription...	$ 100 00	
Boxing and Express charges .	5 00	
Cartage, in Kingston....	1 00	
	$106 00	
" Balance transferred to Printing Act.	31 80	
		$ 137 80

No. 15. The Reference Book.

Although subscriptions received exceeded that of the previous year, no action can be taken to proceed with the work, until a sum of at least $200.00 has been received. In the meantime sums sent in are kept in a separate account, bearing interest. The object is to produce a work of reference which will prove of great interest to all Ex-Cadets, and which will contain greater information than the previous issue and will correspond in size with that of our present Proceedings. If funds eventually permit, the book will be bound in cloth.

Additional List of Subscribers :—

Lieut.-Colonel R. Cartwright, C.M.G., R.C.R. ...	$ 2 00
Lieut.-Colonel H. S. Greenwood, 3rd Dragoons...	3 00
Lieut.-Colonel J. Houliston, 80th Regiment.....	1 00
Major S. J. A. Denison, C.M.G., R.C.R.	2 00
Major F. M. Gaudet, R.C.A..... ...	1 00
Major R. C. Laurie, R.O..... ...	2 00
Major A. H. vanStraubenzee, R.E.....	0 80
Hon. Major P. Weatherbe, Brighton Engineers	2 00
Captain V. L. Beer, R.A.	2 00
Captain J. L. H. Bogart, 14th Regiment	2 00
Captain D. MacPherson, R.O.	1 00
Captain G. S. Wilkes, R.A.	2 33
Lieutenant W. B. Anderson, 97th Regiment	1 00
Lieutenant A. E. Doucet, R.O.	2 50
Carried forward	$24 89

	Brought forward	$24 89
	Lieutenant L. Homfray Irving, R L.	1 00
	Lieutenant W. A. H. Kerr, R.O.	1 25
	Lieutenant A. K. Kirkpatrick, R.O.	2 00
	Lieutenant H. McM. Rathbun, R.O	1 00
	2nd Lieutenant G. T. Hamilton, R.A.	0 86
	Mr. K. C. Cochrane	1 00
	Mr. G. L. Mattice	2 00
	Subscriptions for year 1901	$34 00
1901. 1st Jan.	Subscriptions in 1900 per balance	17 50
	Interest on deposit, Union Bank	0 66
	Amount to credit of fund	$52 16

No. 16, The Forshaw Day Painting Fund.

In the month of November measures were taken by Members of the Club, to raise a fund in aid of Prof. Forshaw Day, R.C.A., in consideration of the friendly relations that always existed between him and the Cadets in attendance at the College, and in view of the fact that his circumstances were such as to appeal to the feelings of all those who had met him at Kingston. It is very evident, judging from the liberal response received, that he was during his period at the College a most popular Professor. A number of his Paintings were offered for sale and bought by Members; others having expressed a desire to render assistance, it was concluded to raise a special fund for an Oil Painting to be presented to the College, for which purpose a circular

was issued, and at time of writing is on its way to Members throughout the world.

A statement is submitted herewith, showing amounts contributed from November to the close of the year, which is highly satisfactory in so short a period. Much praise is due to the following Members for the willing and energetic manner in which they worked in reaching this result :—Major E. V. O. Hewett, R. W. Kent Regiment, Kingston ; Captain D. MacPherson, R.O., Montreal ; Major F. M. Gaudet, R.C.A., Quebec, and Lieut. W. A. H. Kerr, Toronto.

List of Subscribers.

Paintings purchased :—

Major F. M. Gaudet, R.C.A, one.....	$ 20 00
Major E. V. O. Hewett, R. W. Kent Regiment, three.....	100 00
Major Ernest F. Würtele, 18th Regiment, one.....	20 00
Lieut. A. E. Doucet, R.O., two.....	48 00
Lieut. J. G. Hearn, R.O., one.....	15 00
Lieut. R. W. Leonard, R.O., one.....	25 00
Raffled by Major Würtele, and won by Bugler H. Würtele, 18th Regiment, one.....	8 00
Chateau Frontenac, Quebec, per Major F. M. Gaudet, R.C.A., one.....	20 00
Montreal Members, two.....	165 00
	$421 00

Cash Subscriptions :—

Captain H. J. Lamb, R.O.	$ 3 00	
Lieut. F. L. Crawford, R.O	5 00	
Lieut. H. D. L. Gordon, R.O	5 00	
Lieut. L. Homfray Irving, R.L	5 00	
Lieut. W. A. H. Kerr, R.O	5 00	
Lieut. A. G. T. LeFevre, R.O	5 00	
Lieut A. C. Macdougall, Toronto Engineers	3 00	
Lieut. W. L. Matthews, 10th Regiment	2 00	
Lieut. F. B. Osler, R.O	10 00	
		$ 43 00

STATEMENT OF RECEIPTS AND EXPENDITURE.

RECEIPTS.

To Cash Sale of Paintings	$421 00	
" Cash subscriptions	43 00	
" Interest on deposit, Union Bank	0 07	
		$464 07

EXPENDITURE.

By paid Forshaw Day, Esq., R.C.A., per Major E. V. O. Hewett	$391 00	
" do 2 Brass Plates and engraving	10 00	
	$401 00	
" Balance in hand to apply on account of purchase of Oil Painting	63 07	
		$464 07

Paintings Presented by Montreal Members.

Oil Painting, "On the Bow River".....	$ 80 00
Water Colour, "The Hermit Range"...	75 00
Two Brass Plates and engraving.....	10 00
	$165 00

Inscription on Brasses :—

Presented to the
Royal Military College
by some Ex-Cadets resident in Montreal
in memory of pleasant hours spent with
PROFESSOR FORSHAW DAY, R.C.A.,
1901.

List of Montreal Subscribers.

Lieut.-Col. G. A. S. Hamilton, 3rd Regt.	$ 12 50
Major George R. Hooper, R.O.....	25 00
Captain C. J. Armstrong, 5th Regiment.	3 00
Captain J. W. Domville, R.O.....	10 00
Captain D. MacPherson, R.O.....	10 50
Captain W. J. Mitchell, Indian Staff Corps.....	5 00
Captain H. Ritchie, R.O.....	12 50
Carried forward.....	$ 78 50

Brought forward.....	$ 78 50
Lieutenant L. A. Amos, R.O.....	2 00
Lieutenant R. A. Brock, Governor-General's Body Guard.....	15 00
Lieutenant C. deBoucherville, R.O.....	5 00
Lieutenant B. McLennan, R.O.....	25 00
Lieutenant E. A. Whitehead, R.O.....	15 00
Mr. Randall Davidson.....	2 00
Mr. E. McDougall.....	12 50
Mr. W. G. Warner.....	10 00
	$165 00

On behalf of the donors, Captain D. MacPherson, R.O., presented the two paintings to the College, and which were accepted by the Commandant, Lieut.-Col. Reade. They were hung in the Reading Room, which by a coincident used to be Professor Day's studio. His thanks were conveyed to the Members through Capt. MacPherson, with the information that the paintings were painted on the spot, the oil in 1899, and the water colour in 1878; the latter was exhibited in Chicago, and received a very nice notice from the eminent art critic, Ernest Hecht, of Paris.

No. 17, Military Reconnaissance.

During the summer of 1901, a party of Gentlemen Cadets, under the charge of Major C. C. vanStraubenzee, R.A., were employed on a Reconnaissance Survey.

The following report has been kindly furnished by Major vanStraubenzee :—

In charge of Reconnaissance Survey,

Major C. C. vanStraubenzee, R.F.A.

Members :—

Captain J. L. H. Bogart, 14th Regiment.
Lieutenant A. C. Caldwell, 14th Regiment.
Sergt. Browne, Royal Engineers.
Gentleman Cadet D. K. Edgar.
Gentleman Cadet J. F. McParland.
Gentleman Cadet W. F. Sparrow.
Gentleman Cadet V. J. Kent.
Gentleman Cadet S. C. Biggs.
Gentleman Cadet M. L. Gordon.
Gentleman Cadet C. C. McLennan.
Gentleman Cadet K. Cameron.

Work was commenced on the 12th of July, with Head Quarters at Port Dover.

The instructions issued to the party were as follows :—

(*a*). From the Grand River East of Paris to Woodstock, thence in a S. E. direction to Port Dover. The Grand River to form the Easterly boundary, and to embrace all territory contained in these boundaries.

(*b*). Parry Sound, Ont., with a radius of 10 miles. The following features to be noted and indicated :—

(1). Positions suitable for defence of harbour.

(2). The ordinary and probable entrance channels to harbour.

(3). If for defence should same be blocked ? If so, which ?

(*c*). Sault Ste. Marie, Ont., with a radius of 10 miles, showing detail of railway bridge and canal, and the Canadian approaches.

On July 27th a party, consisting of the Officer in charge, Lieut. Caldwell, Sergt. Browne, and Gentleman Cadet C. C. McLennan, left for Parry Sound, arriving there on the 29th, completing the work by the 9th of August. They then proceeded to Sault Ste. Marie, Ont., and completed the work there by the 23rd of August.

The whole party was disbanded about the end of August.

At Parry Sound the country was found to be very rough and rugged, the contouring between roads was extremely difficult. In some places large tracts of land without roads or even tracks had to be contoured.

The following was the extent of country surveyed :—

Place.	Road Mileage.	Square Miles
Port Dover.....	3,600	1,925
Parry Sound.....	68	94
Sault Ste. Marie..	190	186
Total.....	3,858	2,205

The Maps were accompanied by Reports.

Description of country :

The Port Dover District was flat and fairly level, thickly populated and the country mostly all under cultivation. There were no prominent features, but the roads were excellent.

At Parry Sound the country was very rough and rugged, very few roads, thickly wooded, intersected by lakes and rivers and most difficult to contour.

At Sault Ste. Marie the country for five miles surrounding the town was fairly level and most of it under cultivation. Beyond this it was thickly wooded, very hilly and rough, and no roads to speak of.

No. 18, Inter-College Revolver and Rifle Competition. Sandhurst-Kingston.

The result of the Inter-College Revolver and Rifle Competition, held during the year for the first time between the Royal Military College, Sandhurst, England, and the Royal Military College, Kingston, Canada, is submitted herewith.

Revolver Match.

(Distance, 20 yards; position, standing; 6 shots with right hand, 6 shots with left hand).

Won by R. M. C. Sandhurst, by 70 points.

Rifle Match.

Distances 200 and 500 yards.

Won by R. M. C. Kingston, by 5 points.

The Scores made by the R. M. C. Canada, are submitted in detail:—

Revolver Match.

	Right Hand.	Total.	Left Hand.	Total.	Grand Total.
Cadet Bredt.....	7 5 5 4 4 3	28	7 7 7 3 2 2	28	56
Corporal Panet.....	4 3 3 3 2 2	17	6 5 4 4 0 0	19	36
Corporal Blanchard.	6 4 4 3 0 0	17	5 3 2 2 2 0	14	31
Cadet Wright.....	7 3 2 0 0 0	12	4 3 3 3 2 0	15	27
		74		76	150

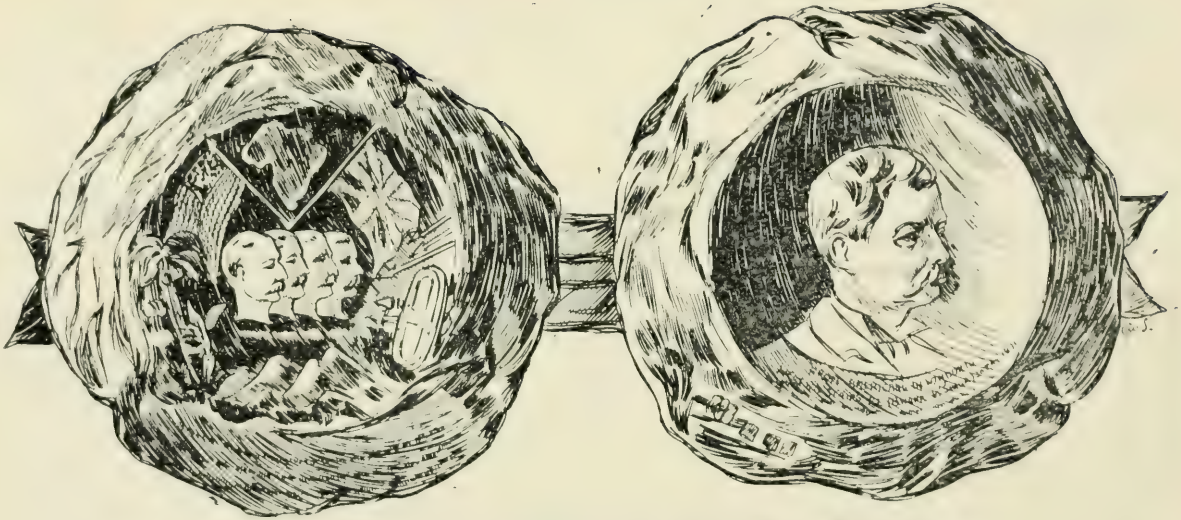
RIFLE MATCH.

	200 Yards.	Total	500 Yards.	Total.	Grand Total.
Color Sergt. M. Chipman..	2–2 4 5 3 3 3 4	24	2–2 2 2 2 3 2 3	16	40
Sergeant Weatherbe ...	3–3 4 5 5 4 4 4	29	0–0 3 4 2 4 4 5	22	51
Corp. Gordan	4–4 3 5 3 2 4 4	25	4–5 4 2 3 4 4 2	24	49
Corp. Panet...	2–4 4 5 5 4 5 5	32	2–2 3 5 5 5 5 3	28	60
Cadet Healy..	4–5 5 4 3 5 4 2	28	2–5–5 4 2 2 0 4	22	50
Cadet Carr-Harris...	4–3 5 2 5 2 3 5	25	2–2 5 2 5 5 2 4	25	50
Cadet Wright	5–4 4 4 2 4 5 5	28	2–3 4 4 4 4 3 4	26	54
Cadet Francis	4–4 5 4 3 5 3 4	28	0–2 4 3 2 5 5 4	25	53
		219		188	407

No. 19, MEDAL OF THE STANLEY EXPEDITION.

Extract from *The Halifax Daily Echo*, 12th October, 1901.

Mr. John W. Stairs, of this city, recently received a letter from Henry S. Mellcome, London, asking him, on behalf of the American residents in the United Kingdom, to accept the medallion subscribed for by them, and intended for presentation to his brother, Lieutenant W. G. Stairs, who accompanied the great explorer, Henry M. Stanley, in his "Darkest Africa" expedition, and who has since died in Africa.



THE MEDALLION FOR THE LATE LIEUT. W. G. STAIRS.

Four of these medallions have been made, the other three being for Lieut. Stairs' companion officers—Jepson, Parks and Nelson. It is a strange fact that all these men are now deceased.

The medallion, a cut of which is given above, is very beautiful and of a most elaborate and carefully wrought out design. It is of silver, very heavy, and about four inches in diameter. On the obverse is a large vignette of Henry M. Stanley.

Beneath it is this inscription:

From Americans in London to

Lieut. W. G. Stairs, R.E., (Bwana M'Singa),

30th May, 1891.

"Courageous, careful, watchful, diligent and faithful."

STANLEY.

On the reverse side, in the centre, are smaller vignettes of the Officers. Above them is a representation of the Dark Continent itself between the crossed flags of Britain and the United States. To the left is a palm tree, and on the right a design of arrows and shields. Beneath the vignettes is depicted a view of African mountains and forests.

On the rim of the obverse is this inscription, a quotation written by Stanley:

"Never while human nature remains as we know it will there be found four gentlemen so matchless for their constancy, devotion to their work, earnest purpose and unflinching obedience to honour and duty."

STANLEY.

The medallion is enclosed in a handsome velvet-lined leather case, on the cover of which is outlined an African landscape, in the foreground of which is the figure of a man in hunting costume, with gun and spear, attended by a na-

tive boy with bow and arrow. Beneath is the name of Lieut. Stairs, with his native designation—Bwana M'Singa, Master of the Canon.

The cut of the Medallion is produced through the kindness of Mr. W. R. Dunn, Manager, Chronicle Publishing Co., Halifax.

No. 20, Fourth Military Tournament, Toronto.

The R. M. C. was represented at the Fourth Military Tournament, held in Toronto, 24th to 27th April, by forty Cadets, who gave six displays in Gymnastics. They were also successful in carrying off a number of prizes in various competitions in which they took part.

In addition to the Cadets, there were present from the College, Major C. C. vanStraubenzee, R.A., and Major H. A. Panet, D.S.O., R.C.A.

The Toronto World referred to the Cadets as follows :—

"It was well on in the evening when the R. M. C. Cadets marched into the ring. Their reputation had gone before, and they were given a royal reception. And truly they were good to look at—forty clean-limbed, full-breasted young fellows, whose every movement suggested strength and activity. How prettily they went through their exercise, too —exercises that required thoroughly trained muscles and sound constitutions to carry through—now marching with steps intended to develop the legs, again with hands and arms going swiftly through calisthenic movements, now lying prone on the earth, but with only hands and toes touching, again standing on the hands, and with a comrade to support the feet, moving up and down by movements of the arms ; now flying through the air and turning somersaults from the spring board ; again mounting each other's shoulders and forming a splendid pyramid ; now—but who shall describe

it all? These Cadets are splendid examples of what training can do, and of the kind of men Britain will have to fight her battles in the days to come."

The following were among the prize winners:—

Competitions for Officers:—

1. Head and Posts.

   1st Prize, Major H. A. Panet, D.S.O., R.C.A.....Value $ 8.00

2. Lemon Cutting.

   2nd Prize, Major H. A. Panet, D S.O., R.C.A.....Value 5.00

3. Tent Pegging.

   1st Prize, Major H. A. Panet, D.S.O., R.C.A.....Value 10.00

4. Sword vs. Sword (Mounted).

   1st Prize, Major H. A. Panet, D.S.O., R.C.A.....Value 8.00

5. Foil vs. Foil.

   1st Prize, Gentleman Cadet R. R. Carr-Harris....Value 8.00

   2nd Prize, Major H. A. Panet, D.S.O., R.C.A.....Value 5.00

6. Sabre vs. Sabre (on foot).

   1st Prize, Gentleman Cadet R. A. Harcourt....Value 8.00

7. Riding and Jumping.

   2nd Prize, Gentleman Cadet J. F. McParland...Value 7.00

   3rd Prize, Gentleman Cadet W. F. Sparrow.....Value 5.00

8. Riding and Jumping (with led horse).

   1st Prize, Gentleman Cadet J. F. McParland...Value 8.00

9. Tug-of-War.

   1st Prize, Cadet Team..... .....Pewter Mugs.

Captain :—Major Logan, R. M. C. Staff. Team :—Major H. A. Panet, D.S.O., R.C.A. ; Gentlemen Cadets R. A. Harcourt, C. C. MacLennan, G. B. Wright, D. K. Edgar, R. R. Carr-Harris.

10. Championship for " Best Man-at-Arms." Silver Cup presented by His Excellency the Governor-General

Major H. A. Panet, D.S O., R.C.A.

The tug-of-war between the Officers of the 48th Highlanders and the Gentlemen Cadets. Major Panet worked hard for his team, and catching the Scotsmen when they were drawing their breath, pulled them over the line, winning the event for the Cadets.

No. 21, Our Patron and Hon. Member.

The following letters, received from the Hon. F. W. Borden, M.D., M.P., Minister of Militia & Defence, and Lieut.-Colonel S. C. McGill, late Staff Adjutant Royal Military College, elected respectively Patron and an Hon. Member, are submitted for the information of the Members of the Club :—

Ottawa, 6th May, 1901.

Dear Major Wurtele,

I have much pleasure in accepting the position of Honorary Patron of your Club for the current year. Kindly convey my thanks to the President and Members of the Club for the honour they have done me.

Yours very truly,

(Signed), F. W. Borden.

Major E. F. Wurtele,

Hon. Secy.-Treas.,

Royal Military College Club, Quebec.

KINGSTON, Ont., 136 King street,

22nd April, 1901.

DEAR MAJOR WURTELE,

I beg to return my best thanks to the Royal Military College Club, for the compliment they have paid me in making me an Honorary Member.

May I ask you also to convey to the Members my heart-felt appreciation of their interest and good-will as shown by the handsome gift presented to me last Saturday evening.

I am indeed gratified by such an expression, and shall take special pride in pointing it out as a memento of a very happy period—over seventeen years—spent in association with the Cadets of the Royal Military College as their Staff Adjutant.

In conclusion I wish all prosperity and success to the Club.

I know that their efforts are always put forth in the best interests of the Institution and all those connected with it.

Believe me, Yours very sincerely,

(Signed), S. C. MCGILL, Lt.-Colonel,

Late Staff Adjutant Royal Military College of Canada.

MAJOR WURTELE, 18th Regiment,

Hon. Secretary, Royal Military College Club,

Quebec.

No. 22, THE SOUTH AFRICAN CONSTABULARY.

His Majesty having accepted from Canada, 1000 men to serve in the South African Constabulary, offered therein

a number of Commissions, the appointments made were on the recommendation of His Excellency the Governor-General.

The South African Constabulary is a permanent mounted force for the purpose of maintaining order and public security in the Orange River Colony and the Transvaal. It is to act as a District Mounted Police in time of peace and as a Military force in time of war, and be available for service in any part of British South Africa.

The following Ex-Cadets and Cadets received Commissions in the Canadian Detachment :—

To be Captains.

Captain H. E. Burstall, Royal Canadian Artillery.

Inspector W. H. Scarth, North-West Mounted Police.

Captain H. R. Poussett, 26th Regiment.

Sergeant A. W. R. Wilby, Strathcona's Horse.

To be Lieutenants.

Gentleman Cadet K. C. Folger, Royal Military College.
Gentleman Cadet C. R. E. Willits, Royal Military College.

To be Private.

Lieutenant W. R. Greig, 59th Regiment.

Captain Poussett was posted to No. 21 Troop E. Division, O.R.C.

The Recruiting Officers in connection with the raising of this force included the following Members :—

Capt. H. E. Burstall, R.C.A., British Columbia.

2nd Lieut. C. W. W. McLean, R.F.A., St. John, N.B.

Brevet Major E. M. Morris, Devonshire Regiment, was seconded from his Regiment for service with the South African Constabulary.

No. 23, The 2nd Regiment Canadian Mounted Rifles.

The 2nd Canadian Mounted Rifles, organized in Canada for Service in the Field in South Africa, being the latest contribution to the fighting force in South Africa, sailed from Halifax in two contingents in January, 1902. It consisted of over 900 Mounted Infantry of all ranks.

Among the Officers nominated for Commissions in this Regiment, and whose appointments were approved by the Right Honourable the Secretary of State for War, were the following Members :—

To be Captains (According to Seniority).

Major R. G. E. Leckie, Reserve of Officers.

Captain P. E. Thacker, Royal Canadian Regiment.

Lieutenant J. E. Leckie, D.S.O., Reserve of Officers.

To be Lieutenants (According to Seniority).

Lieutenant W. B. M. Carruthers, Reserve of Officers.

Lieutenant G. H. Kirkpatrick, Reserve of Officers.

Gentleman Cadet W. J. Loudon, Royal Military College.

Non-Commissioned Officers and Men.

No. 668, Corporal G. S. Bowie, Captain 11th Regiment.

No. 812, Corporal J. A. Coryell, Lieut. Reserve of Officers.

No. 6, Private C. M. Maxwell.

This Regiment was taken to South Africa in the Troopships "Manhattan" and "Victorian."

Captain Chas. J. Armstrong, 5th Regiment, who was visiting Canada on Leave, returned by the "Victorian" to resume his duty with the Imperial Railway Corps.

No. 24, South African Despatches.

Names mentioned by Lord Roberts, Lord Kitchener, Sir Redvers Buller and Sir Charles Warren, in connection with the operations in the war in South Africa, 1899-1901.

Names Mentioned by Lord Roberts.

Major S. J. A. Denison, Royal Canadian Regiment, Aide-de-Camp.

Captain (Brevet-Major and Local Lieutenant-Colonel) E. P. C. Girouard, D.S.O., R.E., Director of Railways.

Captain Geo. M. Kirkpatrick, Royal Engineers.

Major G. Hunter Ogilvie, Royal Canadian Artillery.

Captain A. C. Macdonell, Canadian Mounted Rifles.

Captain H. A. Panet, Royal Canadian Artillery.

Lieutenant J. E. Leckie, Strathcona's Horse.

On the 4th of September, 1901, Earl Roberts reported to the Right Honourable the Secretary of State for War, a continuation of his Despatch of the 2nd of April, 1901, in which he brought to notice the names of certain Staff and other Officers, together with a number of Colonial Officers, who had distinguished themselves, and submitted among others, the names of the following Regimental Officers, who had rendered special and meritorious service. The names are arranged regimentally, by precedence of Corps, for the purpose of more ready reference :—

Major H. P. Leader, 6th Dragoon Guards.

Major Herbert M. Campbell, Royal Artillery.

Major E. J. Duffus, Royal Artillery.

Lieutenant W. H. N. Cantlie, Royal Artillery.

Captain H. C. Nanton, Royal Engineers.

Captain N. G. VonHugel, Royal Engineers.

Captain H. G. Joly de Lotbinière, Royal Engineers.

Lieutenant H. A. Kaulbach, Royal Warwickshire Regiment.

Major J. W. Sears, South Staffordshire Regiment.

Captain H. Carington Smith, Royal Dublin Fusiliers, (Commanding Robert's Light Horse).

Captain Geo. N. Cory, Royal Dublin Fusiliers.

Brevet-Major C. M. Dobell, Royal Welsh Fusiliers.

Major R. Cartwright, Royal Canadian Regiment.

Major V. A. S. Williams, Royal Canadian Dragoons.

Major G. E. Sanders, Canadian Mounted Rifles.

Names Mentioned by Lord Kitchener.

Lieutenant T. W. Chalmers, Canadian Mounted Rifles, (killed).

Captain H. C. Nanton, Royal Engineers.

Names Mentioned by Sir Redvers Buller.

For gallant and meritorious service.

Lieut. G. N. Cory, Royal Dublin Fusiliers Composite Mounted Infantry Regiment.

Captain C. A. Hensley, Royal Dublin Fusiliers (died of wounds).

Advance of a portion of the Natal Field Force from Zandspruit to Lydenburg.

Captain G. N. Cory, Royal Dublin Fusiliers Composite Mounted Infantry Regiment.

Lieutenant R. H. B. Magee, Strathcona's Horse.

Lieutenant J. E. Leckie, Strathcona's Horse.

NAMES MENTIONED BY SIR CHARLES WARREN.

Operations in the neighbourhood of Faber's Put, 30th May, 1900.

For gallant and meritorious conduct.

Major G. Hunter Ogilvie, "E" Battery, Royal Canadian Artillery.

Captain R. M. Courtney, Strathcona's Horse, 20th Sept., 1901, Lon. Gaz.

ALTERATIONS.

Members are requested to communicate with the Hon. Secretary of the Club, respecting any Alterations or Omissions in the above lists, for correction in future reports.

No. 25, CHINA DESPATCHES.

A Despatch dated the 6th of July, 1901, from Lieutenant-General Sir Alfred Gaselle, dealing with the operations of the British Troops in China, subsequent to the occupation of Pekin, the services of the following Officer are mentioned therein:

Captain P. G. Twining, Royal Engineers.

No. 26, South African Honours.

Lieut.-Col. R. Cartwright, C.M.G.

It is with pleasure that Members are notified of the following appointments to the Most Distinguished Order of St. Michael and St. George, and the Distinguished Service Order; and the following promotions and appointments in the Army and Canadian Militia, in recognition of their services during the War in South Africa, 1899-1900.

THE ORDER OF ST. MICHAEL AND ST. GEORGE.

To be K. C. M. G.

Captain and Brevet Major E. P. C. Girouard, D.S.O., R.E.

To be Companions of St Michael and St. George.

Lieutenant-Colonel R. Cartwright, Royal Canadian Regiment.

Captain and Brevet Major S. J. A. Denison, Royal Canadian Regiment.

To be Companions of the Distinguished Service Order.

Major G. E. Sanders, Canadian Mounted Rifles.

Brevet Major C. M. Dobell, Royal Welsh Fusiliers.

Captain G. N. Cory, Royal Dublin Fusiliers.

Captain A. C. Macdonell, Canadian Mounted Rifles.

Captain H. A. Panet, Royal Canadian Artillery.

Lieutenant J. E. Leckie, Strathcona's Horse.

Lieutenant D. S. MacInnes, Royal Engineers.

Lieut.-Col. G. H. Ogilvie, R.C.A.

Lieut. D. S. MacInnes, D.S.O., R.E.

To be Brevet Lieutenant-Colonels.

Captain and Brevet Major S. J. A. Denison, C.M.G., Royal Canadian Regiment.

Inspector A. C. Macdonell, D.S.O., North-West Mounted Police.

Major G. Hunter Ogilvie, Royal Canadian Artillery.

Supt. G. E. Sanders, D.S.O., North-West Mounted Police.

To be Honorary Major (Canadian Militia).

Captain Paul Weatherbe, Brighton Engineers.

To be Brevet Majors.

Captain H. G. Joly de Lotbinière, Royal Engineers.

Captain Geo. M. Kirkpatrick, Royal Engineers.

Captain E. M. Morris, Devonshire Regiment.

Captain H. A. Panet, D.S.O., Royal Canadian Artillery.

Captain H. Carington Smith, Royal Dublin Fusiliers.

Captain V. A. S. Williams, Royal Canadian Dragoons.

To be Hon. Major in the Army.

Major R. C. Laurie, Strathcona's Horse.

To be Hon. Captain in the Army.

Captain R. M. Courney, Strathcona's Horse.

To be Hon. Lieutenants in the Army.

Lieutenant G. H. Kirkpatrick, Strathcona's Horse.

Lieutenant G. E. Laidlaw, Strathcona's Horse.

Lieutenant J. E. Leckie, D.S.O., Strathcona's Horse.

Lieutenant R. H. B. Magee, Strathcona's Horse.

Lieutenant H. S. Tobin, Strathcona's Horse.

Major H. A. Panet, D.S.O., R.C.A.

Captain G. N. Cory, D.S.O.

No. 27, Ceremonies Attending the Conferring of Orders Upon Members.

Lieut-Colonel Sir E. P. C. Girouard, K.C.M.G., D.S.O., R.E.

On the 25th of July, 1901, His Majesty the King held an Investure at St. James' Palace, when the following Officer was introduced into the presence of the Sovereign, who conferred upon him the honour of Knighthood and invested him with the Insignia of the Order of St. Michael and St. George (K.C.M.G).

The following article is taken from *The United Service Gazette* of the 10th of August, 1901 :—

A Director of Railways.

Canadians are naturally proud of the part which has been played in the last two campaigns of the British Army, namely, in the Soudan and in South Africa, by their countryman, Sir Percy Girouard.

Of the value of the services which have been rendered by him in the two wars there can be no question, and the fact that, at the age of thirty-four, he finds himself by sheer merit, a Lieut.-Colonel in the Army, and a K.C.M.G., is evidence that they have been appreciated by so competent and impartial a judge as Lord Kitchener, of Khartoum. A sketch of the career of Colonel Girouard in the *Canadian Military Gazette*, and written by an Officer who knows him well will, therefore, be read with interest.

"The recent appointment of Lieut.-Colonel E. P. C. Girouard as a Knight of the Order of St. Michael and St. George," says Lieut.-Colonel G. S. Everson, the writer of the notice we have referred to, "has set many people talking about this gentleman, and as so many inaccurate statements were made, perhaps it may be of interest to briefly outline some of the causes of his extraordinarily rapid advancement. Percy Girouard did not exhibit at school or at the Royal Military College any marked ability. He was one of those minds which developed later. He graduated rather low in his class, and did not get a commission until the extra ones were offered to Canadians in 1888, two years after gradua-

tion. During these two years he had been employed by the C. P. R. as an Engineer in the construction of the short line through Maine. He there laid the foundation of the knowledge of Railway matters, which has served him so well since. In 1890 he was appointed traffic manager of the Government railways in the Woolwich Arsenal. He greatly improved the service, and by his devices saved considerable sums in the cost of running engines, some £600 a year in coal alone. While at Woolwich he formulated his scheme of defence of England by a coast railway and mounted guns on trucks, which has been partially carried into effect since. He also proposed the use of the road plough for entrenching in the field, instead of exposing his men for this purpose. One man and a team of horses can in this way do the work of a regiment, and in less time.

In 1896 he was sent to Egypt on the railway staff. By the death or invaliding of other officers he soon rose to the command of the department. He devised with success many ingenious plans for the building of the desert railway, not the least important of which was the boring for water in the barren desert. Before the railway was begun he furnished a complete statement of everything which would be required, down to the number of spikes, a document of several hundred pages. The railway was not only completed within the specified time, but cost £200,000 less than was anticipated. Without this railway the Soudan could not have been reconquered. Girouard was appointed Director of Egyptian Government railways at a salary of £2,000 a year in recognition of his genius as a railway engineer. Soon after the declaration of war by the South African Republics he was summoned to London to advise the Government regarding railway matters. After much opposition he ordered duplicates of all the bridges likely to be blown up by the enemy before they had even reached the neighbourhood in which the bridge stood. In this way he spent £250,000.

When the bridges were eventually blown up all the

material was at hand to commence the reconstruction; thus a bridge at Norval's Point was rebuilt in six weeks, which, had the material to be ordered and brought from England, would have taken at least six months, and the campaign would have been correspondingly prolonged, and the successful occupation of the Free State rendered impossible. Girouard was sent out to the seat of war at great financial sacrifices to himself. One of his successes was in the construction of "deviations" to take the place of destroyed bridges. Some of these deviations were two or three miles in length. Those who crossed the Modder River on his "switch-back" had an experience they will not soon forget. From banks a hundred feet high the train rushed down to the bed of the river and up again on the other side. I had the experience of being on the first passenger train which was sent over this novel road. It was quite a gamble as to whether one would reach the other side in safety. So far as I have heard no accident has occurred.

The deviations at Zand River, Vet River, Rhenoster River and elsewhere, were characterized by extraordinary ingenuity, but the most serious undertaking was at Norval's Point. I happened to be in the first train to cross the temporary bridge and deviation at this place also. The great bridge across the river was rapidly rebuilt, gangs of men working night and day, at nights by the aid of numerous electric lights. Sir Percy Girouard has also acted as Chief of Staff to the Colonial Defence Division and Administrator of Military Law in Cape Colony. The annals of the British Army record no instance of success equal to that of Colonel Girouard. To be made a K. C. M. G. and a Lieut.-Colonel by merit at thirty-four years of age is without a precedent or a parallel. Canadians have reason to be proud of their countryman, and I hope the occasion of his approaching visit to Canada, and especially to Toronto, will be taken advantage of to show in some public manner our appreciation of his services to the Empire and Canada."

LIEUT.-COL. S. J. A. DENISON, C.M.G.

Lieutenant-Colonel Denison received his Decoration of C. M. G. at an Investiture at Government House, Ottawa, by H. R. H. the Prince of Wales, who had received a warrant from His Majesty the King, giving him power to hold Investitures, being the first and only occasion that such a ceremony ever took place in Canada.

LIEUT.-COLONEL A. C. MACDONELL, D.S.O., R.O.

COL. MACDONELL PRESENTED WITH THE DISTINGUISHED SERIVICE MEDAL AT A FULL DRESS PARADE.

Last June it was known that Col. Macdonell had been appointed a Companion of the Distinguished Service Order in recognition of his bravery during the South African War, the ceremony of presenting the Medal took place at the N. W. M. P. Barracks, Regina. The whole force at the Barracks was drawn up in full dress parade, presenting a smart, soldierly and imposing appearance. Precisely at two o'clock His Honor the Lieutenant-Governor, with suite, and accompanied by Madame Forget, arrived on the parade ground, and was received with a salute. Commissioner Perry then read the following Warrant under the sign manual of the King :—

EDWARD R.

EDWARD, by the Grace of God, of the United Kingdom of Great Britain and Ireland, King, Defender of the Faith, Emperor of India, Sovereign of the Distinguished Service Order, to our trusty and well beloved A. C. Macdonell, Esquire, Captain in our Colonial Forces.

WHEREAS we have thought fit to nominate and appoint you to be a member of our Distinguished Service Order, we do, by these presents, grant unto you the dignity of a Companion of our said Order, and we do authorize you to have, hold and enjoy the said dignity as a member of our said Order, together with all and singular the privileges thereunto belonging or appertaining.

GIVEN at our Court, at Sandringham, under our Sign Manual, this 22nd day of June, 1901, in the first year of our reign.

By the Sovereign's Command,

St. John Broderick,
The Principal Secretary of State having the Department of War for the time being.

Captain A. C. Macdonell,
Canadian Mounted Rifles.

The Warrant was handed to Colonel Macdonell, together with a copy of the Act of Parliament establishing the Order, from which it appears that the Order is for Commissioned Officers and ranks next to the Order of the Indian Empire.

Lieut.-Governor Forget then pinned the decoration on Col. Macdonell's breast, saying: From the reports that reached us during your absence in South Africa, we are all sure that you well deserve the decoration that has been presented to you, and I am personally very gratified to be the channel through which it has reached you. In placing it on your breast I feel I could not put it on a braver one, and I hope you may live to earn still greater honour. While you were away there was a person doing duties here who also deserves some decoration, and Madame Forget will have pleasure in performing that ceremony on Mrs. Macdonell.

Madame Forget then presented Mrs. Macdonell with a very handsome bouquet which, both for blooms and arrangement, was much admired.

Three rousing military cheers were then given for Colonel Macdonell, and the ceremony was ended and the force dismissed. The medal is of very elegant design. It consists of a gold cross, enamelled white, edged with gold, having on one side in the centre, within a wreath of laurel, green enamelled, the Imperial Crown in gold, upon a red enamelled ground. On the reverse, within a similar wreath and on a similar ground is the Imperial and Royal cypher V.R.I. The medal is suspended by a riband edged blue and with two gold clasps.

A dinner was given by His Honour the Lieut.-Governor and Madame Forget at Government House, in honour of the event.

Major C. M. Dobell, D.S.O.

On the 29th of November, 1901, by Direction of the Department of Militia and Defence, Major H. A. Panet was presented by Lieut.-Colonel R. Reade, Commandant R.M.C., with the Insignia of the Distinguished Service Order on a full dress parade at the College, in the presence of the O. C. the Royal Canadian Field Artillery at Kingston.

This is the first occasion of an Ex-Cadet receiving a decoration within the precincts of the College.

Captain J. E. Leckie, D.S.O., C.M.R.

Captain J. E. Leckie, of the Canadian Mounted Rifles, late of Strathcona's Horse, was presented with the Insignia of the Distinguished Order on the evening of the 9th of January, 1902, at Halifax, N. S., previous to his departure

for South Africa for the second time. The presentation was made by Lieut-Governor Jones, at the Armories, in the presence of Officers from the Canadian Mounted Rifles, 3rd Royal Canadian Regiment, Royal Garrison Artillery, and all the City Militia Corps.

LIEUT.-COLONEL G. E. SANDERS, D.S.O., R.O.

No. 28, THE SOUTH AFRICAN WAR, 1899-1901.

The following extracts from Reports, etc., are submitted for the information of the Members :—

From Supplementary Report, Organization, Equipment, Despatch and Service of the Canadian Contingents during the War in South Africa, 1899-1900.

From the Officer Commanding 2nd (Special Service) Battalion, Royal Canadian Regiment, to the Adjutant-General, Militia Department, Ottawa.

TORONTO, January 26th, 1901.

STAFF EMPLOY OF OFFICERS.

It may be interesting to record in connection with the services of the Battalion in South Africa, the fact that many of its Officers were selected for staff employment, which is evidence of the intelligence and capability possessed by them. Below I submit a tabulated list of those obtaining such appointments :—

* * * * * *

Major J. C. MacDougall—D.A.A.G. for Railways at Cape Town for seven months, from April 15 to November 15.

Major S. J. A. Denison—A.D.C. to F. M. Roberts C. in C. for ten months, from February 1 to November 30.

Lieut. H. A. Panet—Station S.O., L. of C., Belmont, for two weeks, from January 13.

Lieut. A. E. Hodgins—In charge of Construction Imperial Military Railway, from June 10, 1900, and still employed.

Lieut. C. J. Armstrong—In charge of Construction Imperial Military Railway, June 10, 1900, and still employed.

Lieut. A. C. Caldwell—In charge of maps, Cape Town, for seven months, from April 1 to October 31.

Lieut. F. D. Lafferty—Railway Staff Officer, L. of C. at Springs and Eerste Fabricken for three months, from June 15 to August 2, and August 25 to October 10.

Lieut. C. W. W. McLean—A.D.C. to General Sir Henry Colville for two months, February and March.

* * * * * *

Commendatory Messages.

It may not be amiss in this report to refer to the many messages received in South Africa by the Battalion during its recent Campaign, as evidence of the commendation with which its services were viewed by those in authority, and the public generally.

From Royal Military College Club, Ottawa.

Received March 9, 1900.

"Extend hearty congratulations to Canadians."

* * * * * *

Concluding Remarks.

Lieut. Lafferty, in the dull drudgery of transport officer, who, through his untiring energy and intelligence, coupled with the good care of his mules, always had his wagons into bivouac before any others.

From Diary of Lt. B. Col. Buchan, April 26–May 25, 1900.

At 4 P.M. the battalion was ordered to scale the Eden Mountain and hold it against a force of 3,000 Boers, who were reported on the far side of it. At 5.40 P.M. reached, after very hard climbing, a sort of plateau about half way up to the top. It was by that time dark, but proceeded to build "scances" and prepare to hold the position on a front of about half a mile. Whilst doing this it became dark and very cold. At about 7 P.M. received orders to gradually withdraw quietly and return to Thabanchu. This was a very difficult operation owing to complete darkness, and exceedingly precipitous and rugged character of the mountain.

In arranging for and affecting the descent of the mountain, and in collecting the several companies and finding the way back to Thabanchu in the dark, I was very ably and successfully assisted by Lieut. Hodgins, and so reported to the G. O. C. Brigade.

* * * * * *

"B" Company, under Captain Burstall, receiving the heaviest fire and doing the hardest fighting. * * * * Specially mentioned Captain Burstall for his plucky conduct on this occasion in my report to G. O. C. Brigade. * * * * Specially mentioned Captain Burstall in my report to the G. O. C. Brigade (19th) for gallant and determined conduct in action.

* * * * * *

From Officer Commanding 2nd Battalion:—

Florida, Johannesburg, May 31, 1900.

Sir,—I have the honour to report upon the action at Doornkop, which took place on the 29th inst., and in which the Battalion took part. * * * * It now became apparent that an attempt was being made to outflank us on our right, and I detailed one of the Maxim guns to open in this direction. This was most effectively done under Lieutenant Hodgins' supervision, and in half an hour our flank was safe.

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List of Wounded.

27 Feb., Lieut. C. J. Armstrong. Right thigh. Slight.

* * * * * *

The 2nd Contingent.

Promotions and Appointments after organization.

To be Second in Command—Major G. Sanders, from May 20, 1900.

To be Major—Captain A. C. Macdonell, from May 20, 1900.

To be Captain—Lieutenant T. W. Chalmers, from March, 1900.

From Officer Commanding Royal Canadian Dragoons.

Toronto, January 21, 1901.

There are several officers, whom I happen to know have been brought to the notice of the Commander-in-Chief, and I should also like to mention their names here :—

Major V. A. S. Williams, Commanding "B" Squadron.

From Officer Commanding Canadian Mounted Rifles.

H. M. Transport "Roslin Castle," Jan. 3, 1901.

GENERAL ADVANCE.

The most notable regimental feature of this advance was the night march made by a Squadron composed of two troops each from "C" and "D" Squadrons, under Captain A. C. Macdonell. This Squadron, after a hard day's fighting and 15 hours in the saddle, marched at 8.30 p.m. through the enemy's lines and blew up an important culvert near Smaldeel Junction, rejoining the Brigade safely the following morning. This incident was mentioned in despatches. The Brigade rested at Kroonstadt from May 12 to 20, during which period Lieut. Chalmers, with 50 men, took part in Col. Alderson's night ride to Bothaville, when several important prisoners were captured.

* * * * * *

The severe wound sustained by Captain Macdonell deprived the Battalion for the remainder of the Campain of the services of one of its most capable and efficient officers.

At other points along the line excellent work was done by the different detachments, Lieut. Chalmers being specially commended by General Smith-Dorrien for smart and aggressive scouting.

* * * * * *

The night attack made on 5th September by Dirkson's Commando with two guns, on Nooitgedacht, which was held by a Detachment of 100 men of the Battalion, Major Sanders in command. This attack, of a most determined character, made at daybreak, was beaten off in a most creditable manner before outside assistance arrived.

This fight was mentioned in despatches by the Commander-in-Chief. Two Officers, Major Sanders and Lieut. Moodie, were slightly wounded.

The engagement at Belfast on the 2nd November was an occurrence which brought out the best fighting qualities of the Battalion. The advanced guard of the column was composed of 50 N. C. O's and men under Major Sanders, the advanced party being under Lieut. Chalmers. The advanced party was attacked by the enemy in large numbers, and Lieut. Chalmers was killed while taking steps to bring in Major Sanders, who was wounded, and while in the very act of warning an orderly to dismount at a dangerous point. Lieut. Chalmers was peculiarly qualified for active service, cool, cautious, and daring, and his death in so gallant a manner was keenly felt by all ranks. The incident was the subject of a special report from me, and was mentioned in despatches by the G. O. C. For plucky work on this occasion I submitted the following names to the G. O. C. :—
Major Sanders * * * * * * *

Extracts from Despatches Referring to the Battalion.

From General Hutton to C. S. O., September 6.—"You will convey to Major Sanders, C.M.R., and through the Lt.-Col. Commanding, to the Officers, N. C. Officers and men concerned, my extreme satisfaction at the gallant and successful defence made by the detachment of 2nd Canadians yesterday against very superior numbers of the enemy, accompanied by artillery. I have had special pleasure in bringing the conduct of Major Sanders and his detachment to the favourable notice of the F. M. C. in Chief, in my despatch on the subject."

From Force Orders, Belfast, November 4.—"The following extract from a telegram sent yesterday by the G. O. C. to Lord Roberts is published for information:—In yesterday's action Major Sanders and Lieut. Chalmers, Canadian Mounted Rifles, were wounded and killed respectively while performing acts of gallantry. The former rode out under a heavy and close fire to bring in a Sergeant who had lost his horse. As the two rode off on one horse the horse was shot. Then in proceeding on foot Sanders was shot. Lieut. Chalmers then advanced to Sanders, spoke to him and went away, and although Sanders, who was lying behind a stone, implored him not to come back to him again under the heavy fire, Lieut. Chalmers gallantly did so and was shot dead. The G. O. C. deplores the death of this splendid officer."

* * * * * *

Among the Officers mentioned in the despatches during the Campaign or in reports were included:—

Major Sanders (wounded).

Captain Macdonell (wounded).

Lieut. Chalmers (killed).

Lieut. Chalmers, killed in action, near Belfast, 2-11-1900. Buried at Belfast.

Major G. E. Sanders, wounded at Nooitgedacht, 5-9-1900. Slight. Also wounded near Belfast 2-11-1900. Slight.

Captain A. C. Macdonell, wounded at Diamond Hills, 12-6-1900. Dangerously wounded (accidentally).

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From Lieut.-Col. C. W. Drury, Commanding Brigade Division, Royal Canadian Artillery, 18th January, 1901.

"Of the Officers, I desire particularly to mention my Adjutant, Captain H. C. Thacker, R.C.A. Not only were his ordinary duties of Adjutant performed to my entire satisfaction, but on several occasions, when I employed him as my Staff Officer when in command of a body of mixed troops, by his tact and constant attention to duty, he made my work comparatively easy."

* * * * * *

From Officer Commanding "C" Battery (Special Service) R.C.A., Kingston, 7th March, 1901.

"In closing this report, I desire to draw particular attention to the valuable assistance at all times received from my officers without exception. In the general work of the Battery, the services of Captain Panet were invaluable." * * *

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From Lieut.-Col. S. B. Steele, Commanding Lord Strathcona's Horse, Ottawa, 23rd March, 1901.

"On July 1 (Dominion Day), while the regiment was in advance, it met with its baptism of fire. The troops under Lieuts. Tobin and Kirkpatrick, while protecting the left flank, came in contact with a large force of the enemy under Ben. Viljoen, and were fired upon from a rocky kopje in front, and from a farm flying a white flag on the right front."

* * * * * *

It being our turn for outpost duty, Lieut. Leckie was sent to form an observation post on the ridge mentioned, but finding the ground occupied by a considerable force of Boers he sent to me for support. I reported to Lord Dundonald, who advised me to send out two troops. This was done, Lieuts. Kirkpatrick and Tobin Commanding. In proceeding over the rough rocky ground, which was the feature of the hill, they became entangled with the enemy. * * * Previous to this, at the time when Lieut Leckie was sent out, Sergt. Logan with a section of men proceeded up the hill to occupy a point further to the front, met the enemy at close quarters, and refusing to surrender, were all but one man, killed. I then ordered up the pom pom, which did excellent work under the skilful handling of Lieut. Laidlaw. Major Jarvis with his Squadron attacked and took possession of the sangars and kraals. He was ably assisted by Lieuts. Kirkpatrick and Tobin.

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The behaviour of the officers and men was all that could be desired, and Lieuts. Kirkpatrick and Tobin deserve special mention.

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The Force halted here again on the 10th, but Lieut. Kirkpatrick's and Lieut. Tobin's troops were sent out to ascertain the whereabouts of the enemy. These officers were complimented by General Barton upon the manner in which the work was carried out.

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Extract from a Despatch of General Sir Redvers Buller, dated 9th November, 1900.

"Lieutenant R. H. B. Magee did excellent service throughout, and proved himself most useful in every duty he was called upon to perform.

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"The remark I have made about the South African Light Horse applies equally in this case, and I submit a list of names :—

LIEUTENANT J. E. LECKIE.

In referring to the South African Light Horse, Sir Redvers Buller states in his despatch :—"In a corps like the South African Light Horse it will be difficult to reward good work except by public notice. I do not know whether it may be found possible to do so, but in case it should be, I append a list of those officers and men who, during the twelve months' work, have performed special acts of bravery, or have been selected for, and successfully carried out, arduous reconnaissances or dangerous duties."

COMMISSIONS IN THE ARMY.

In March, 1900, the Right Honourable the Secretary of State for War offered to Canada, 42 direct commissions in the army, 12 of which were to be given to Cadets in attendance at the Royal Military College of Canada. Of the remaining 30, 24 were set apart by His Excellency the Governor-General for Members of Canadian Corps on Service in South Africa.

Nominations for these 24 commissions were made by His Excellency and the appointments gazetted as hereunder :—

Corporal J. K. G. Magee, Canadian Infantry, to Royal Artillery.

Gunner J. R. Jago, E. Battery, R.C.A., to Royal Artillery.

Gunner N. W. Cosby, C. Battery, R.C.A., to Middlesex Regiment.

Corporal F. E. Leach, Canadian Mounted Rifles, to Liverpool Regiment.

Of the following appointments the following resigned his Commission :—

Corporal F. E. Leach.

The following were selected and were nominated by His Excellency the Governor-General, but declined their Commission :—

Lieut. T. W. VanTuyl, E. Battery, R.C.A.

Lieut. C. J. Armstrong, Royal Canadian Regiment.

Colonel Girouard was appointed "Officer to administer martial law in Cape Colony," and for the time relinquished the railway post. He was given wide powers and practically represented the Governor. The Colonial Division, commanded by General Brabant, was placed at his disposal. It is worthy of note that he has selected Colonials in place of Army troops to do his work.

Captain D. H. Ridout, R.E., was Intelligence Officer to Colonel B. Doran's Column, and located Krintzinger and his Commando, holding it in check with his scouts till the Column came up, which ended in the capture of Krintzinger and the disposal of his forces.

Major W. T. Bridges, Royal Australian Artillery, disembarked December 6th, 1899, attached to the Royal Horse Artillery, Staff Corps Artillery from December 11th, 1899, to January 2nd, 1900, and to New South Wales Lancers, from January 3rd to April 28th, 1900. Embarked for England May 17th, 1900.

In the course of a most interesting lecture upon lessons taught by the South African Campaign, delivered at Ottawa, by Captain C. F. Winter, Assistant Adjutant of the Royal Canadian Regiment, the following interesting passage occnrred :—

"Referring to the position of Quartermaster, the lecturer contended that we never have in Canada given this appointment the attention, etc., it deserved. On service the Quartermaster was the man, and the post should be made sufficiently attractive to ensure getting the very best man in a regiment to fill it. In this connection the Royal Canadians had been very fortunate in the latter part of the Campaign, as their Quartermaster had shone as the very best transport officer in the Division. His mules and niggers were always in the best of shape, and many a time late at night, when a particularly bad drift had delayed all second line transport in rear, the Canadians were the first to get a warm meal, the only one since daylight that morning, and due to the energy and foresight of their Quartermaster. At this point Colonel Cotton, D.O.C., asked Captain Winter if he would give the Officer's name, when he said he referred to Lieut. Lafferty, R.C.A., who had proved such an admirable transport officer."

No. 29, Our Casualties in the Boer War.

1899-1901.

ACTION NEAR PHILIPPOLIS.

Killed.

Captain Laurie.—Captain John Haliburton Laurie, Royal Lancaster Regiment, Mounted Infantry Company, eldest son of Lieutenant.-General J. W. Laurie, M.P., of 47 Porchester

Terrace, W., was killed near Philippolis, on the 12th of April, 1901. He was born in August 1864, entered the Royal Lancaster Regiment in September 1885, and was promoted Captain in July 1895. He was employed with the Colonial Forces in Canada, from October 1889 to October 1895. He was a member of the Polo Team which won Prince Henry of Prussia's Cups on the China Station in 1898 and 1899. Captain Laurie won the Sultan of Jahore's Cup for the Shooting Championship of the Straits Settlements in 1899. He was an intimate friend of the Sultan of Jahore.

The Mounted Infantry Companies prepared at Aldershot for Service in South Africa, left Southampton by the ss. "Hawarden Castle" on the 2nd of January 1901. Captain Laurie was in Command of No. 2 Company 130 of the 1st Battalion of his Regiment.

Extract from "The North Devon Journal," 4th April, 1901.

The Stained-glass Window presented to Newport Church, Barnstaple, by Captain Laurie, was unveiled and dedicated at a special service on Saturday afternoon. Captain Laurie (who was the Adjutant of the 4th V.B.D.R.) has for over four years been Church-Warden of the Parish of Newport, leaving England only a few weeks ago for Active Service in South Africa.

Placed on the south side of the nave (nearest the pulpit) the new Window is a very handsome one, the colours being rich and subdued and exquisitely blended, and the general finish being masterful to a degree. Figures in the upper lights form a special feature of the Window. The subject of the Window represents our Lord, with the Crown of Thorns around His head, as Man of Sorrows, uttering those loving words of welcome: "Come unto Me all ye that labour and are heavy laden, and I will give you rest," and coming to

him are depicted various types responding to the universal invitation attracted by His sympathetic influence, the poor child, the maiden, the careworn mother bringing her babe in her arms, the hoary-headed king resigning his earthly crown, and the warrior yielding up his sword, each alike seeking "Rest" drawn to the Christ, whose yoke is easy and burden light. The adoring angels above suggest the unseen guardian angels hovering round. The Window was the work of Mr. Arthur Dix, London.

Saturday's service was at 3.30 p.m., and there was a large congregation, much interest being taken in the afternoon's ceremony.

The service commenced by the Organist playing the voluntary, "Shepherd of Souls." The Vicar took the first part of the service, the Archdeacon, clergy, and choir then proceeding to the new Window. The Window was unveiled by Mrs. Chichester, of Hall, Archdeacon Seymour saying the dedicatory, after which he preached an eloquent sermon from the text, "I have loved the habitation of Thy House, and the place where Thine Honour dwelleth." He reminded them of David's desire to build a beautiful House for God's Worship; and all that who loved God should do what they could to make His House here as beautiful and magnificent as they could. This was the feeling expressed in the gift of this Window by one who had left their midst to meet the danger of battle; it was the farewell gift of one who had been an Officer of that Church and had taken much interest and pleasure in its services.

No. 30, Blockhouse Construction in South Africa.

The following article is produced from "The Canadian Engineer," the Editor having kindly granted his permission and loaned the cuts :—

A good deal has been heard about the Blockhouses in South Africa with which Lord Kitchener is gradually hemming in the Boers. About four thousand of these little forts have been erected, and another thousand are to be built. They are about a mile apart and are often connected by barbed wire, which cannot be cut without raising an alarm. Each Blockhouse is connected with the nearest mobile force by telephone. They cost on an average about £70. Each one is garrisoned by about ten men, and in most cases a couple of dogs. A favorite device is to place a dummy sentinel outside to draw the Boer fire.

Beginning the Work.

These forts are rapidly built, requiring 12 men and 20 natives only about 8 hours. Work is begun at the trench,

the earth being thrown into the centre. When a sufficient height has been reached, a circle (about 24 feet diameter and 3 feet high) of galvanized iron is put in, another of the same added, and then banked round until a bullet proof mound surrounds the whole. The top part, containing the loopholes, is a double cylinder filled in with small stones to make it impervious to rifle fire.

Inside there is a cistern of water and a reserve of rations for a week.

Completed in Eight Hours.

A cordon of barb wire surrounds each. Of course such forts would be useless if the Boers were provided with artillery; but, as it is, they protect the lines and are serious obstacles to the movement of the Boer Commandos.

Our illustrations, taken from the "Graphic," will give an idea of this system of Blockhouse construction.

No. 31, Banquet and Presentation to Lieut. G. E. Laidlaw, Late Strathcona's Horse.

Extract from "Watchman-Warder."

The people of Kirkfield did themselves proud on Wednesday evening, the 11th April, 1901, when they tendered a public banquet to Lieut. Laidlaw and Pte. McRae, of the Strathcona Horse, on their arrival home from South Africa. An immense crowd assembled at the station to welcome the heroes, and when they stepped from the car they were greeted with hearty cheers. The Woodville Brass Band led off with "The Conquering Heroes," while the Messrs. Lunan in kilts made the welkin ring with the stirring strains of "The Cock o' the North" on the bag-pipes. The guests from a distance were escorted to carriages and a procession was quickly formed and all proceeded to the Township Hall. The interior was beautifully decorated with bunting, pictures and mottoes, while the tables looked most appetizing with their great spread of dainty eatables. The banquet was rendered doubly attractive from the presence of the ladies, who were not only leaders in the patriotic movement but were the life of the event. About 150 ladies and gentlemen sat down to a magnificent spread.

The Toast List.

The genial Chairman brought the happy gathering to attention, after which the usual patriotic toasts were duly honoured. The Woodville Band contributing the National Anthem and the Maple Leaf.

Then followed the toast of the evening, "Our Guests," proposed in an elegant and patriotic address by Dr. J. W. Wood, the Chairman. He referred to the guests with pride, and thought that we honoured ourselves in honouring them, for the excellent services they had rendered the Empire. The

British Empire covered a greater area than ever before, and no one could say how much of the credit was due the brave Colonials who had brought honour to their country and united the Empire by an iron band which he sincerely hoped would never be broken. We honour these men because they have upheld our honour upon the veldts of South Africa. He touched upon the course of the war and pointed out that the world has always gained by Great Britain's successes. He paid a high tribute to the Canadian Forces, and eulogized Lord Strathcona for his share in the defence of the Empire. He congratulated Lieut. Laidlaw and Private McRae upon having had the honour of serving their country in this way, and in a lighter vein warned them that they had to face even greater conquests at home than they had on the field of battle. It was not the first time Lieut. Laidlaw had gone forth in the defence of his country. In the time of the Rebellion in the Northwest, he with Col. Deacon had gone forward to assist in restoring peace. He touched upon the power and greatness of the British Army and pointed out that the officers came in for the greatest share of the praise The British army had the best officers in the world, but when it came down to privations, exposure and even starvation it was the "man behind the gun" that did the work and really deserved the praise. We do well in honouring Messrs. Laidlaw and McRae; they were brave men and were ready to serve their country again. He touched on the Eastern war cloud, and stated that the times were troublesome and no man could tell what it will bring forth, but come what will the officers and men of the British army are in readiness to-day.

Dr. J. F. Ross then read a complimentary address to Lieut. Laidlaw, and then presented him with a sword of honour, which was buckled on that stalwart defender of the Empire, amidst the loudest applause.

"They are jolly good fellows" was given with three cheers by all present.

Lieut. Laidlaw returned his sincere thanks to his friends for the honour done him, and hoped if ever the sword had to be drawn that he would be there to draw it. He then related their journey from Cape Town to Pretoria and other points in the campaign, and while treating with some of the hardships abstained from picturing the battle scenes, simply referring to skirmishes at this or that point.

Col. Hughes referred to his long acquaintance with Lieut. Laidlaw and his career in the Northwest. In this connection he referred to the fact that at the time Lieut. Laidlaw was wounded at Batoche, a Mr. Christie, who was in the same fight, was also wounded, and that both were again found fighting side by side in the Strathconas, and had both come out of South Africa without a wound. He also spoke of the excellent work done by the Strathconas in South Africa, and recounted several engagements in which they had distinguished themselves.

No. 32. Local Dinner at Bedford, N. S.

THIRD ANNIVERSARY DINNER IN NOVA SCOTIA.

The third Anniversary Dinner in Nova Scotia was held at Bedford on the 10th of January, 1902, the occasion being that of the departure of the 2nd Canadian Mounted Rifles for South Africa.

The Menu Cards were prettily designed and painted by Mr. D. Weatherbe, who also supplied a copy of a local paper from which the following report is taken :—

Present at the Dinner :—

Colonel R. A. Rigg and Major C. E. English, formerly Professors at the College.

Captain J. E. Leckie, D S.O., Canadian Mounted Rifles.

Captain R. G. E. Leckie, Canadian Mounted Rifles.

Lieut. W. B. M. Carruthers, Canadian Mounted Rifles.

Lieut. A. C. H. Dean, Royal Artillery.

Lieut. G. H. Kirkpatrick, Canadian Mounted Rifles.

Lieut. W. J. Loudon, Canadian Mounted Rifles.

Lieut. R. McColl, Reserve of Officers.

Lieut. E. Poole, Reserve of Officers.

Lieut. D'Arcy Weatherbe, Reserve of Officers.

Corporal J. A. Coryell, Canadian Mounted Rifles.

Private C. M. Maxwell, Canadian Mounted Rifles.

Mr. H. T. Fuller.

Mr. J. E. Smith.

Extract from local Newspaper :—

One of the most enjoyable and interesting affairs which have taken place in this vicinity for some time was the dinner at the Bellevue Hotel, Bedford, on Saturday night, held by the Graduates of the Royal Military College at present in Halifax. A number of Graduates are leaving for South Africa with the Canadian Mounted Rifles, and their comrades residing in the city embraced the opportunity afforded for having a "reunion."

After the guests had done justice to the good things provided by the host Creighton, the Chairman proposed the "King," which was followed by the singing of the National Anthem.

Col. Rigg then rose to propose the toast of the Royal Military College of Canada. He expressed his great pleasure at meeting so many of his old pupils, and related some very amusing anecdotes of College life, and recalled the pleasant

days spent at the College. He briefly sketched the successful career of the most famous graduates from Stairs, one of the first to bring the name of the College prominently before the world, to the latest distinguished graduate, Captain "Jack" Leckie, who had but two days previously been presented with the D. S. O.

Lieut. Loudon, of the C. M. R., who has just left the College and still wears the uniform, replied for the College. He said that from what he had heard of the early days of the R.M.C. from those present, that times were not quite equal to the "good old days," probably owing to the fact that the course had been reduced from four to three years, but that it was still "all right," and he thought superior to that of any other College.

Major English proposed the health of the graduates. He considered the seven years spent at Kingston as among the happiest in his life. He recalled many of the humorous sides of the College life, and related some of his experiences in his endeavours to keep up to a high standard in the face of great difficulty in securing efficient assistance owing to politics being introduced in the selection of N. C. Officers. He referred to the success of the graduates and their readiness to come forward when wanted.

Mr. Coryell, the senior graduate present, responded. He said that although 20 years in civil life (he modestly omitted to mention the effective service rendered by himself as a Lieutenant in Steel's Scouts during the North-West Rebellion) the military spirit only slumbered, and now he had awakened, and he was going forth to assist in upholding the cause of the Empire. He had been in the West for fifteen years, and had found that in civil life as well as in military, the graduates of the R. M. C. were able to take their place with those from any other institution.

Lieutenant Carruthers, a graduate of '83, who is now going to South Africa for the second time, proposed "The

Imperial Forces." He said that, as a rule, it was customary to propose the Army and Navy, but now our horizon was broadening, and at the present time he was very much impressed with the idea that we Canadians were but a part and parcel of the British Empire, and he preferred the broader and more comprehensive expression, Imperial Forces.

Capt. Jack Leckie made a short and effective reply, and ended by starting "Rule Britannia," which was sung with great enthusiasm.

Col. Rigg, on being called upon, remarked that no more effective reply could be made than the song just finished.

Lieut. Dean, R.A., kindly favoured the company by starting one of the College songs.

Mr. Darcy Weatherbe, graduate of '96, proposed "The Canadian Mounted Rifles." He said that when the last Contingent left Halifax, the members of the R. M. C. Club in Nova Scotia decided to give a dinner to the graduates of the College going to South Africa, and that it had been such a success as to warrant its repetition, and that the present gathering showed they had made no mistake. He modestly placed the credit of the idea with Mr. McColl, whom he said had been nominated as Vice-President of the R. M. C. Club for the coming year. He himself had been a member of the Managing Committee, but owing to the distance from Headquarters he had very little work assigned him and had not found the duties arduous. His principal duty, he thought, must be to collect subscriptions for two or three worthy objects, on which he dwealt and explained at some length. He spoke in high terms of the C. M. R., and said he knew the representatives from the College would keep up the high standard of the graduates. He referred to the mistake made in reducing the course from four years to three years. He had talked to a great many graduates and everyone of them advocated the return to the four-year-course. He admitted that some of the present graduates under the three years'

course were possibly equal to those who received a course of four years, but it was undoubtedly a lowering of the standard and was especially unfair to the graduates in civil life who had taken a four years' course, and were now considered as graduates of a college which only give a three years' course.

Captain R. G. E. Leckie, a graduate of '90, an old Nova Scotian, but at present residing in Vancouver, replied for the Contingent, thanking the company for their good wishes, and trusted that they might do credit to the old College. He considered that there was nobody in the world in which the *esprit de corps* was so strong as among Ex-Cadets.

Lieut. Kirkpatrick proposed the health of "The Graduates resident in Halifax," whom they had to thank for the present pleasant gathering. Lieut. Kirkpatrick agreed, as did all present, with Mr. Weatherbe. He had spoken to the officers of the College, who were all of the same opinion, and he thought that we had reason to hope the return to the old course of four years would be made very shortly.

Mr. McColl, in reply, stated that Mr. Weatherbe had modestly given him credit for the present gathering, but that in reality it was Mr. Weatherbe himself who was responsible for its success. He alluded to the pleasure of having two of the former Professors present at the meeting and spoke in high terms of the Staff. Every Graduate of the R. M. C. had received not only a thorough grounding in the art of war, but also an up-to-date one. Although fifteen years had passed since he graduated from the College, he had been taught to expect almost everything that the public were now learning from the present war, and that the War Office was only now putting in practice. It had been most forcibly impressed on every Cadet that Mounted Infantry was the force of the future, and that it must not only replace the Cavalry, but also to a certain extent the Infantry. That owing to the effectiveness of the rapid firing rifle, all movements in future must be in extended order, and that even Cavalry must be

received in open order ; that it is important to take advantage of all cover, and that the spade is really more useful than the bayonet. He said that Canada was about to revise her Military system, and that this was the time when the graduates of the R. M. C. should come forward and exert their influence in the moulding of the system. He had been engaged in civil life since graduation, and in this he found that the R. M. C. men were coming to the front. In the Maritime Provinces, for example, the Provincial Engineer of New Rrunswick, Mr. Wetmore ; the City Engineer of Sydney, Mr. Yorston ; the Chief Engineer of the Cape Breton Railway, Mr. Leonard ; the Assistant City Engineer of Halifax, Mr. Johnston ; the Engineer in charge of Cold Storage and Bait Freezers for Nova Scotia, Mr. J. F. Fraser ; the Deputy Provincial Engineer of Nova Scotia, the Assistant Engineer of the Mines Department in Nova Scotia, are all R. M. C. graduates. He thought some method should be devised in the new Canadian Military system for utilizing the latent military knowledge of graduates who were in civil life.

Mr. Jack Leckie proposed "The Ladies" in a witty speech, which was responded to by Mr. Poole and Mr. Fuller.

Mr. J. E. Smith proposed "The R. M. C. Club," and Lieut. Dean, R.A , "Our next Merry Meeting."

No. 33, The Royal Reviews.

The most interesting Military occurrence of the year was the large concentration of troops in connection with the tour in Canada, of Their Royal Highnesses the Duke and Duchess of Cornwall and York, and the Reviews held before the Royal visitors at Quebec, Toronto and Halifax.

The Royal Review at Quebec, on the 17th of September, was the second occasion that the Gentlemen Cadets took part

in a Review outside of Kingston, the previous one being in Montreal, in 1879.

The Gentlemen Cadets, 51 in number, under the Command of Major Logan, left Kingston by the Grand Trunk Railway at 12.55 noon, on the 16th of September, in two tourist sleeping cars. Supper was served in Montreal at the St. James's Hotel, they then proceeded to Levis, arriving at 7.25 the morning of the 17th. They took part in the Review under the command of Lieut.-Colonel Reade, Commandant. They returned on the 18th of September, leaving Levis at 7 a.m., reaching Montreal at noon. They were permitted to spend the afternoon in that city and left at 8.30 p.m., and reached the College on the 19th September, at 6 a.m.

In connection with the Royal Reviews, the following Members were present on the Staff :—

Lieut.-Col. S. J. A. Denison, C.M.G., R.C.R., Quebec, Toronto and Halifax.
A. D. C. to His Royal Highness the Duke of Cornwall and York.

Captain F. D. Lafferty, R.C.G.A., Quebec.
D.A.A.G. (Transport.)

Major V. A. S. Williams, R.C.D., Quebec.
Brigade Major to the Cavalry Brigade.

Captain P. E. Thacker, R.C.R., Quebec.
Brigade Major to the 1st Infantry Brigade.

Captain F. D. Lafferty, R.C.G.A., Toronto.
D.A.A.G. (b.)

Major V. A. S. Williams, R.C.D., Toronto.
Orderly Officer to the Cavalry Division.

Captain P. E. Thacker, R.C.R., Toronto.
Orderly Officer to the 2nd Infantry Division.

Lieutenant Garnet B. Hughes, R.O., Toronto.
Orderly Officer to the 3rd Infantry Brigade.

Major Panet, D.S.O., R.C.A., Staff Adjutant, R.M.C., Quebec.
A. D. C. to His Honour the Lieutenant-Governor of the Province.

No. 34, The Canadian School of Musketry.

A very important Military feature of the year 1901 was the establishment of the Canadian School of Musketry.

Lieut.-Colonel R. Cartwright, C.M.G., A.A.G., was appointed Inspector of Musketry on the 15th of April, and Commandant of the School on the 1st of July.

The following extract from the Report of the G. O. C. the Canadian Militia is submitted for the information of the Members :—

" The School of Musketry opened at Rockliffe range for its first instructional class on July 2nd, the second class opened on September 2nd, and both lasted for a period of six weeks.

Thirty-four Officers and Non-Commissioned Officers attended these courses, and of these 20 obtained " extra " and 14 " ordinary " certificates, a result which I consider very satisfactory, and great credit is due to Lieut.-Colonel R. Cartwright, C.M.G., the Commandant, who devised and carried out the course of instruction under serious disadvantages for want of properly trained Assistants. Indeed the success that attended the first year's operations of the School are entirely due to the zeal and energy displayed by the Commandant. I trust that in the coming year he may enter upon the season's work with an adequate staff of highly trained instructors.

There appears to be a very false, but unfortunately a very wide-spread impression, that this School has been

established for instruction "in shooting," but such is by no means the case. Its object is to train Officers and Non-Commissioned Officers and Men of their respective units, for few people realize the terrible waste of ammunition that results from taking men out to fire on the Ranges without preliminary training in the use and handling of their rifles. Up to the present time such training has been impracticable for want of properly qualified teachers."

Each course consisted of six weeks and included lectures and instruction in :—

(*a*) Target Practice and Range Finding.

(*b*) Armoury work (practical).

(*c*) Rifle range equipment and management.

(*d*) Rifle Ranges, their selection and requirements.

(*e*) S. A. Ammunition, testing and manufacture of.

(*f*) Musketry Regulations and Drill.

(*g*) Theoretical Principles.

Additional extract from the Report of the G. O. C. the Canadian Militia :—

"A new "Gallery Cartridge," suggested by Lieut.-Colonel Cartwright, C.M.G., and most ably worked out and perfected by Major F. M. Gaudet, R.C.A., Superintendent of the Dominion Arsenal, has been introduced. This Cartridge supersedes the use of the "Morris Tube," to which it is very superior, as it can be used with the ordinary rifle, and thus every man can practise with his own, and moreover, being very much cheaper, a much larger allowance of this ammunition can be made, and I confidently expect that it will prove of the greatest benefit to the service."

No. 35, R. M. C. Ex-Cadets as Field Officers.

The following Ex-Cadets have attained the rank of Field Officers in the Imperial Army, alphabetically arranged, with dates of first appointments to the Service and Staff Services :

CAMPBELL, Major and Brevet Lieut.-Colonel H. M., Royal Field Artillery, (25-6-81.)

CAREY, Major H. C., Royal Engineers, (26-6-84.) Employed in Niger Coast Protectore, 3 Aug. '95 to 29 Feb. '96. Employed in the Office of the Inspector General of Fortifications, War Office.

DOBELL, Captain and Brevet Major C. M., D.S.O., Royal Welsh Fusiliers, (20-8-90.) Served as Adjutant 7 Nov. '96 to 6 Nov. '00.

DUFFUS, Major E. J., Royal Field Artillery, (30-6-85.)

DUFFUS, Major G. S., Royal Field Artillery, (27-6-82.) Served as Staff Captain, Royal Artillery, Canada, 1 Jan. '96 to 6 March '99.

GIROUARD, Brevet Major Sir E. P. C., K.C.M.G., D.S.O., Lieut.-Colonel, South Africa, Royal Engineers, (28-7-88.) Railway Traffic Manager, Royal Arsenal, 1 July '90 to 14 Aug. '95. Employed with Egyptian Army, 10 April '96 to 11 Sept. '98. Special Extra Regimental Employment, 12 Sept. '98 to 6 Oct. '99. Director of Railways (Graded A.A G.), South Africa, 7 Oct. '99 to 5 Nov. '99. Director of Railways (Graded D. A. G.), South Africa, 6 Nov. '99. Employed on Railway work for Transvaal and Orange River Colony, 19 May '01 to Oct. '01.

GRAY, Major P. E., Royal Field Artillery, (26-6-83.) Staff Captain School of Gunnery, Devonport, 1 April '92 to 31 March '97.

JOLY DE LOTBINIÈRE, Captain and Brevet Major H. G., Royal Engineers, (28-6-88.) Staff Officer to Director of Railways, South Africa, 7 Oct. '99 to 31 Dec. '99. Railway Staff Officer (Graded D. A. A. G.), South Africa, 1 Jan. '00.

KIRKPATRICK, Captain and Brevet Major, p. s. c. Royal Engineers, (30-6-85.) A. D. C. to G. O. C. Thames District, 4 Aug. '92 to 14 Jan. '95. D. A. A. G. (Intelligence) South Africa, 30 Nov. '99.

LANG-HYDE, Major J. I., C.M.G., Royal Engineers, (26-6-83.) Survey Duty Gold Coast Colony, 18 Jan. '93 to 30 Sept. '94. Assistant Instructor School of Military Engineering, 1 Oct. '94 to 9 Jan. '00. Employed on Anglo-French Boundary Commission, W. of Niger, 10 Jan. '00 to 15 Jan. '01.

LEADER, Major H. P., 6th Dragoon Guards, (2-9-85.) A. D. C. (extra) to G. O. C. Egypt, 20 April '90 to 31 Dec. '90. Superintendent Gymnasia, S. E. District, 26 Aug. '97 to 3 Nov. '99.

MORRIS, Captain and Brevet Major E. M, Devonshire Regiment, (17-12-90.) Employed with South African Constabulary, 19 Jan. '01. Adjutant Thorneycroft's Mounted Infantry.

SEARS, Major J. W., South Staffordshire Regiment, (25-6-81.) Employed with Militia Dominion of Canada, 1 Dec. '83 to 20 Dec. '88. Adjutant Volunteers, 7 Dec. '92 to 9 Jan. '98.

SKINNER, Major F. St. D., p. s. c. Royal Sussex Regiment, (9-8-82.) Employed with Egyptian Army, 6 Jan. '86 to 14 June '87. D. A. A. G. (Musketry) India, 24 April '99.

SMITH, Captain and Brevet Major H. C., Royal Dublin Fusiliers, (2-9-85.) Employed with Egyptian Army, 31 Dec. '97 to 8 Dec. '99. Special Service, South Africa, 9 Dec. '99 to 8 June '00.

TAYLOR, Major E. T, p. s. c. Cheshire Regiment, (9-8-82.) D. A. A. G. for Instruction, India, 15 Oct. '98.

VANSTRAUBENZEE, Major A. H., Royal Engineers, (19-2-81.) Instructor Royal Military College, Canada, 7 Oct. '86 to 31 July '93.

No. 36, War Services of Members in the Army, Etc.

In compiling the information submitted herewith it has been ascertained that the records contained in the Official Army Lists and in the Canadian Militia Lists are not correct, numerous omissions are noted therein. It is desired to make the Club Record of War Services more in detail and more complete; with this object in view, those interested are particularly requested to comply with the demand for further information, the desire being to produce in our next publication a correct list. To meet this requirement, information is wanted upon the following points:—

1st. Name of Corps with which service has been performed.

2nd. Names of actions or engagements taken part in.

3rd. Medals awarded, and in case or cases of Clasps, names appearing thereon.

4th. Staff Service.

WAR SERVICES.

1. Armstrong, B. H. O. (Lieut. Royal Engineers)
   Operations in Sierra Leone, 1898-9. Intelligence Officer. Medal with clasp. C. R. E. West Coast of Africa, 1899-1900. South African War, 1900-01. Medal.

2. Armstrong, C. J. (Captain 5th Regiment.)
   South African War, 1899-1901. Actions at Paardeberg (18-27 Feb. 1900) (wounded), Thabanchu, Israel's Poort Hout Nek, Zand River, Doornkop. Capture of Pretoria. Medal with three clasps.

3. Baker, F. E. L. (Captain Royal Artillery.)
   Tirah, 1897-8. Medal with two clasps.

4. Bell, P. W. W. (Late Private Strathcona's Horse.)
   South African War, 1899-1900.

5. BLAND, E. M. (Private Strathcona's Horse.)
South African War, 1900.

6. BRIDGES, W. T. (Major Royal Australian Artillery.)
South African War, 1899-1900.

7. BURSTALL, H. E. (Captain Royal Canadian Artillery.)
South African War, 1899-1900. With Royal Canadian Regiment.

8. CALDWELL, A. C. (Lieut. Reserve of Officers.)
South African War, 1899-1900. Royal Canadian Regiment, Special Service Battalion.

9. CAMERON, K. B. (Captain Argyl & Sutherland Highlanders.)
Operations in Chitral, 1895, with the Relief Force. Medal with clasp. Operations on N. W. Frontier of India, 1897-8, with Tochi Field and Expeditionary Forces. Clasp.

10. CAMPBELL, H. M. (Major and Brev. Lt.-Col. Royal Artillery.)
South African War, 1899-1901. Despatches. *London Gazette*, 10th Sept. 1901, Brevet of Lieut.-Colonel.

11. CAMPBELL, K. J. R. (Captain Reserve of Officers.)
West Coast of Africa, 1894. Employed with the Forces of the Niger Coast Protectorate during operations against Chief Nanna on the Benin River. Despatches. *London Gazette*, 21st Dec. 1894. Medal with clasp, D. S. O.

12. CANTLIE, W. H. N. (Lieut. Royal Artillery)
South African War, 1899-1900. Despatches. *London Gazette*, 10th Sept. 1901.

13. CARRUTHERS, W. B. M. (Late Sergt. Royal Canadian Regiment.)
South African War, 1899-1900. Actions at Paardeberg (18-27 Feb. 1900), Drietfontein, Dornkop. Capture of Pretoria. Repulse of attack on Springs. Pursuit of DeWet. Medal with four clasps.

14. CARTRIGHT, C. E. (Lieut. Reserve of Officers.)
North-West Rebellion, 1885. Medal. Lieut. Midland Battalion.

15. CARTWRIGHT, G. S. (Captain Royal Engineers.)
Isazai Expedition, 1892.

16. CARTWRIGHT, R. (Lieut.-Col. Royal Canadian Regiment.)
North-West Rebellion, 1885. Medal. South African War, 1899-1900. C. M. G.

17. CASGRAIN, P. H. DUP. (Captain Royal Engineers.)
North-West Rebellion, 1885. Medal. South African War, 1899-1901.

18. CLINCH, H. W. (Captain Army Service Corps.)
South African War, 1899-1900.

19. CORY, G. N. (Captain Royal Dublin Fusiliers.)
South African War, 1899-1900. Adjutant Composite Regiment of Mounted Infantry. Relief of Lady Smith. Despatches, *London Gazette*, 8th Feb. 1901, (Sir R. H. Buller, 30th March and 9th Nov. 1900.) and *London Gazette*, 10th Sept. 1901. D. S. O.

20. CORYELL, J. A. (Lieut. Reserve of Officers.)
North-West Rebellion, 1885. Lieut. Steel's Scouts.

21. COSBY, N. W. (Lieut. 48th Regiment.)
South African War, 1899-1900. Gunner "D" Battery, Royal Canadian Artillery.

22. COURTNEY, R. M. (Captain 1st Regiment.)
Diamond Jubilee Medal, 1897. South African War, 1899-1900. Medal with three clasps. Lieut. Strathcona's Horse. Honorary Captain in the Army. *London Gazette*, 20th Sept. 1901.

23. DAVIS, F. (Lieut. Reserve of Officers.)
North-West Rebellion, 1885. Correspondent.

24. DENISON, S. J. A. (Brev. Lieut.-Col. Royal Canadian Regiment.)
South African War, 1899-1900. Despatches 2. C.M.G. Brev. of Lieut.-Colonel. Diamond Jubilee Medal, 1897.

25. DIXON, F. J. (Major Reserve of Officers.)
North-West Rebellion, 1885. Medal. Staff appointments. South African War, 1899-1901. Historical Recorder, Royal Canadian Regiment, Special Service Battalion. Staff employment, Cape Town.

26. DOBELL, C. M. (Brev. Major Royal Welsh Fusiliers.)
Hazara Expedition, 1891. Indian Frontier Medal with clasp (Hazara, 1891.) Occupation of Crete, 1897-1898. Brevet of Major. *London Gazette*, 8th March 1899. South African War, 1899-1900. Employed with Mounted Infantry. China Expedition, 1900. Despatches. *London Gazette*, 10th Sept. 1901. D. S. O.

27. DOUCET, L. C. A. de B. (Lieut. Royal Engineers.)
South African War, 1899-1900.

28. DOUCET. A. E. (Lieut. Reserve of Officers.)
North-West Rebellion, 1885. Medal (wounded.)

29. DOULL, J. D. (Captain Yorkshire Light Infantry.)
South African War, 1899-1900.

30. DRAYNER, F. (Lieut. Reserve of Officers.)
North-West Rebellion, 1885. Inspector North-West Mounted Police.

31. DUFF, G. M. (Captain Royal Engineers.)
Burmese Expedition, 1885-7 and 1887-9. Medal with two clasps. Operations in Chitral, 1895, with the Relief Force. Medal and clasps. Received the thanks of the Government of India, 1891, for the preparation of the scheme for the defence of Attock, position and bridgehead across the Indus River, India.

32. DUFFUS, E. J. (Major Royal Artillery.)
Nile Expedition, 1898. Medal. South African War, 1899-1900. Despatches, *London Gazette*, 10th Sept. 1901.

33. DUFFUS, F. F. (Captain Army Service Corps.)
South African War, 1899-1901. On Staff and temporarily employed with Remount Depot.

34. DUFFUS, G. S. (Major Royal Artillery.)
South African War, 1899-1900.

35. FARLEY, J. J. B. (Captain North Staffordshire Regiment.)
Expedition to Dongola, 1896. Operations of Sept. 19th. Egyptian Medal with clasp, (Hafir) Medal. South African War, 1899-1900.

36. FARWELL, C. B. (Captain Royal Engineers.)
Operations on the N. W. Frontier of India, 1897-8, with Peshawar Col Tirah Expeditionary Force. Medal with two clasps.

37. FOLGER, K. C.. (Lieut. South African Constabulary.)
South African War, 1901.

38. FRITH, G. R. (Lieut. Royal Engineers.)
South African War, 1899-1900. Special Service Officer.

39. GIROUARD, Sir E. P. C. (Brev. Major Royal Engineers.)
Expedition to Dongola, 1896, as Director of Railways. Operations of 19th Sept Despatches, *London Gazette*, 3rd Nov. 1896. D. S. O. Egyptian Medal with clasp. Nile Expedition, 1897. Despatches, *London Gazette*, 25th Jan. 1898. Clasp to Egyptian Medal. Brevet of Major. Nile Expedition, 1898. Medal. South African War, 1899-1901. On Staff. Despatches, *London Gazette*, 8th Feb. 1901. K. C. M. G

40. GORDON, S. F.
North-West Rebellion, 1885. Constable North-West Mounted Police.

41. GRAY, P. E. (Major Royal Artillery.)
South African War, 1899-1900.

42. GREENWOOD, H. S. (Lieut.-Col. 3rd Dragoons.)
South African War, 1900-01. Captain Canadian Mounted Rifles.

43. GREIG, W. R. (Lieut. 59th Regiment.)
North-West Rebellion, 1885. Lieut. 7th Battalion, South African War, 1901. Private South African Constabulary.

44. HAMERSLEY, H. St. G. (Lieut. Royal Artillery.)
South African War, 1901.

45. HAMILTON, W. A. (Captain Connaught Rangers.)
South African War, 1899-1900.

46. HAYTER, R. J. F. (Captain Cheshire Regiment.)
South African War, 1899-1901. On Staff.

47. HENDRIE, M.
South African War, 1899-1900. Private Royal Canadian Regiment (Special Service.)

48. HENEKER, W. C. G. (Captain Connaught Rangers.)
West Africa, 1899. Benin Territories Expedition as Intelligence and Survey Officer. Despatches, *London Gazette*, 14th Sept. 1900. Medal with clasp.

49. HESKETH, J. A. (Lieut. 7th Battalion.)
North-West Rebellion, 1885.

50. HEWETT, E. V. O. (Captain Royal West Kent Regiment.)
Soudan, 1885-6 Frontier Field Force. Action at Ginnis. Medal. Bronze Star. N. W. Frontier of India, 1897-8. Brigade Signalling Officer to 1st Brigade, Malakand. Action at Landakai. Operations in Bajour and in the Mamund country, Utman Khel, Buner. Superintendent of Army Signalling. Attack and capture of the Tanga Pass. Despatches. *London Gazette*, 22nd April, 1898, . Medal and clasp.

51. HODGINS, A. E. (Captain Nelson Rifle Company.)
South African War, 1899-1901.

52. HODGINS, C. R. (Captain Royal Artillery.)
Hazara Expedition, 1891. Medal with clasp.

53. HOGAN, H. H. (Lieut. Reserve of Officers.)
South African War, 1899-1901.

54. HUBBELL, E. W. (Captain Reserve of Officers.)
North-West Rebellion, 1885. Lieut. Midland Battalion. Medal.

55. JAGO, J. R. (2nd Lieut Royal Artillery.)
South African War, 1899-1900.

56. JOLY DE LOTBINIERE, H. G. (Brev. Major Royal Engineers.)
Operations on N. W. Frontier of India, 1897-8. Operations on the Samana and in the Kurram Valley, with Tirah Expeditionary Force. Actions of Dargai. Medal with three clasps. South African War, 1899-1901. On Staff. Despatches. *London Gazette*, 10th Sept. 1901. Brevet of Major.

57. KAULBACH, H. A. (Lieut. Royal Warwickshire Regiment.)
South African War, 1899-1900. Despatches, *London Gazette*, 10th Sept. 1901.

58. KENNEDY, J. N. C. (Captain Royal Engineers.)
South African War, 1899-1900. On Staff. Despatches, *London Gazette*, 8th Feb. 1901. Superintendent Railway Telegraphs, Natal Field Force, 1899.

59. KENNY, G. W. (Captain Royal Inniskilling Fusiliers.)
Operations on N. W. Frontier of India, 1897-8, with Peshawar Col. and 5th Brigade. Tirah Expeditionary Force. Medal with two clasps.

60. KIRKPATRICK, G. M. (Brev. Major Royal Engineers.)
South African War, 1899-1901. On Staff. Despatches, *London Gazette*, 16th April, 1901. Brevet of Major.

61. LAFFERTY, F. D. (Captain Royal Canadian Field Artillery.)
South African War, 1899-1900. Lieut. Royal Canadian Regiment, Special Service.

62. LAIDLAW, G. E. (Lieut. Reserve of Officers.)
North-West Rebellion, 1885. Medal and clasp (Saskatchewan.) Lieut. "C" Co., Midland Battalion (wounded). South African War, Lieut. Strathcona's Horse, 1900-1. Medal with three clasps. (Belfast, Orange River State, Natal.) Gun Detachment 1 Machine, 1 Pom Pom and three pack Maxims.

63. LANG-HYDE, Major J. J. (Royal Engineers.)
Attabalu Expeditionary Force, Gold Coast, West Africa, 1894. Engineer and 2nd in Command.

64. LAURIE, G. B. (Captain Royal Irish Rifles.)
Served with Regiment during Taski Campaign, Egypt, 1889. No medal. South African War, 1899-1900. Special Service Officer, including employment with Mounted Infantry.

65. LAURIE, R. C. (Hon. Major in the Army.)
North-West Rebellion, 1885. Lieut. 90th Battalion, South African War, 1900-1. Major Strathcona's Horse.

47. HENDRIE, M.
South African War, 1899-1900. Private Royal Canadian Regiment (Special Service.)

48. HENEKER, W. C. G. (Captain Connaught Rangers.)
West Africa, 1899. Benin Territories Expedition as Intelligence and Survey Officer. Despatches, *London Gazette*, 14th Sept. 1900. Medal with clasp.

49. HESKETH, J. A. (Lieut. 7th Battalion.)
North-West Rebellion, 1885.

50. HEWETT, E. V. O. (Captain Royal West Kent Regiment.)
Soudan, 1885-6 Frontier Field Force. Action at Ginnis. Medal. Bronze Star. N. W. Frontier of India, 1897-8. Brigade Signalling Officer to 1st Brigade, Malakand. Action at Landakai. Operations in Bajour and in the Mamund country, Utman Khel, Buner. Superintendent of Army Signalling. Attack and capture of the Tanga Pass. Despatches, *London Gazette*, 22nd April, 1898, . Medal and clasp.

51. HODGINS, A. E. (Captain Nelson Rifle Company.)
South African War, 1899-1901.

52. HODGINS, C. R. (Captain Royal Artillery.)
Hazara Expedition, 1891. Medal with clasp.

53. HOGAN, H. H. (Lieut. Reserve of Officers.)
South African War, 1899-1901.

54. HUBBELL, E. W. (Captain Reserve of Officers.)
North-West Rebellion, 1885. Lieut. Midland Battalion. Medal.

55. JAGO, J. R. (2nd Lieut Royal Artillery.)
South African War, 1899-1900.

56. JOLY DE LOTBINIERE, H. G. (Brev. Major Royal Engineers.)
Operations on N. W. Frontier of India, 1897-8. Operations on the Samana and in the Kurram Valley, with Tirah Expeditionary Force. Actions of Dargai. Medal with three clasps. South African War, 1899-1901. On Staff. Despatches. *London Gazette*, 10th Sept. 1901. Brevet of Major.

57. KAULBACH, H. A. (Lieut. Royal Warwickshire Regiment.)
South African War, 1899-1900. Despatches, *London Gazette*, 10th Sept. 1901.

58. KENNEDY, J. N. C. (Captain Royal Engineers.)
South African War, 1899-1900. On Staff. Despatches, *London Gazette*, 8th Feb. 1901. Superintendent Railway Telegraphs, Natal Field Force, 1899.

59. KENNY, G. W. (Captain Royal Inniskilling Fusiliers.)
Operations on N. W. Frontier of India, 1897-8, with Peshawar Col. and 5th Brigade. Tirah Expeditionary Force. Medal with two clasps.

60. KIRKPATRICK, G. M. (Brev. Major Royal Engineers.)
South African War, 1899-1901. On Staff. Despatches, *London Gazette*, 16th April, 1901. Brevet of Major.

61. LAFFERTY, F. D. (Captain Royal Canadian Field Artillery.)
South African War, 1899-1900. Lieut. Royal Canadian Regiment, Special Service.

62. LAIDLAW, G. E. (Lieut. Reserve of Officers.)
North-West Rebellion, 1885. Medal and clasp (Saskatchewan.) Lieut. "C" Co., Midland Battalion (wounded). South African War, Lieut. Strathcona's Horse, 1900-1. Medal with three clasps. (Belfast, Orange River State, Natal.) Gun Detachment 1 Machine, 1 Pom Pom and three pack Maxims.

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Attabalu Expeditionary Force, Gold Coast, West Africa, 1894. Engineer and 2nd in Command.

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Served with Regiment during Taski Campaign, Egypt, 1889. No medal. South African War, 1899-1900. Special Service Officer, including employment with Mounted Infantry.

65. LAURIE, R. C. (Hon. Major in the Army.)
North-West Rebellion, 1885. Lieut. 90th Battalion, South African War, 1900-1. Major Strathcona's Horse.

66. LEACH, F. E. (Lieut. Reserve of Officers.)
South African War, 1899-1900. Private Canadian Mounted Rifles.

67. LEADER, H. P. (Major 6th Dragoon Guards.)
South African War, 1899-1900. Despatches, *London Gazette*, 10th Sept. 1901.

68. LECKIE, J. E. (Captain Canadian Mounted Rifles.)
South African War, 1900-1. Lieut. Strathcona's Horse. Despatches, *London Gazette*, D. S. O.

69. LEONARD, R. W. (Lieut. Reserve of Officers.)
North-West Rebellion, 1885. Lieut. Midland Battalion. Staff Officer of Transport. Medal.

70. LUARD, C. C. (Captain Durham Light Infantry.)
Zhob Valley Expedition, 1890-1. Assistant Superintendent of Signalling.

71. MCELHINNEY, W. J. (Captain Royal Engineers.)
Burmese Expedition, 1887-8. Medal with clasp.

72. MCLEAN, C. W. W. (Lieut. Royal Artillery.)
South African War, 1899-1900. Lieut. Royal Canadian Regiment. (Special Service Battalion.)

73. MCVICAR, J. M.
North-West Rebellion, 1885. Intelligence Corps.

74. MACDONELL, A. C. (Lieut.-Colonel Reserve of Officers.)
South African War, 1899-1900. Captain Canadian Mounted Rifles. Despatches 2, *Canada Gazette*, D. S. O. Brevet of Lieut.-Colonel.

75. MACDOUGALL, C. J. (Lieut.-Col. Royal Canadian Regiment.)
Adjutant Diamond Jubilee Contingent. Medal. South African War, 1899-1900. Major and Regimental Adjutant, Royal Canadian Regiment. (Special Service Battalion.)

76. MACINNES, D. S. (Lieut. Royal Engineers.)
Ashanti Expedition, 1895-6. Honourably mentioned. Star. South African War, 1899-1900. On Staff. Defence of Kimberley. Despatches, *London Gazette*, 8th May 1900. D. S. O.

77. MAGEE, K. (Lieut. Royal Artillery.)
South African War, 1899-1900. Corporal Royal Canadian Regiment. (Special Service Battalion.)

78. MAGEE, R. H. B. (Lieutenant Reserve of Officers.)
South African War, 1900-1. Lieut. Strathcona's Horse.

79. MITCHELL, W. J. (Captain Indian Staff Corps.)
Operations in Chitral, 1895, with the Relief Force. Medal with clasp. East Africa, 1895-6. Operations against the Mazrin Rebels. Medal.

80. MORRIS, E. M. (Brevet Major Devonshire Regiment.)
Operations on N. W. Frontier of India, 1897-8, with Tirah Expeditionary Force. Medal with two clasps. South African War, 1899-1900. Adjutant Thorneycroft's Mounted Infantry. Despatches, *London Gazette*, 8th Feb. 1901, Brevet of Major.

81. NANTON, H. C. (Brev. Major Royal Engineers.)
North-West Rebellion, 1885. Lieutenant Midland Battalion. Medal with clasp. (Saskatchewan.) Lushai Expedition, 1888-9. Operations in Chitral, 1895, with the Relief Force. Medal with clasp. South African War, 1899-1901. On Staff. Despatches, *London Gazette*, 10th Sept., 1901, Brevet of Major.

82. OGILVIE, G. H. (Brev. Lieut.-Col. Royal Canadian Artillery.)
North-West Rebellion, 1885. Actions at Fish Creek and Batoche. Medal with clasp. (Saskatchewan.) Transferred from Winnipeg Field Battery to "A" Field Battery during Rebellion. South African War, 1900-1901. Commanded "E" (Special Service) Battery, Royal Canadian Artillery. Brevet of Lieutenant-Colonel.

83. OSBORNE, G. F. F. (Lieut. Royal Engineers.)
South African War, 1899-1900.

84. PANET, H. A. (Brev. Major Royal Canadian Artillery.)
South African War, 1899-1900. Captain "C" (Special Service) Battery, Royal Canadian Artillery. Relief of Mafeking. Despatches. Brevet of Major. D. S. O.

85. PARKS, J. H. (2nd Lieut. N. B. Hussars.)
South African War, 1899-1900. Corporal Canadian Mounted Rifles.

86. PERRY, A. B. (Commissioner North-West Mounted Police.)
North-West Rebellion, 1885. Inspector North-West Mounted Police. Commanded a body of Militia in conjunction with Police. Alberta Field Force. Diamond Jubilee Medal, 1897.

87. POOLE, H. R. (Lieut. Royal Artillery.)
South African War, 1899-1901.

88. POUSSETTE, H. R. (Captain South African Constabulary.)
South African War, 1901.

89. POWELL, F. H.
North-West Rebellion, 1885. Surgeon Field Hospital Corps.

90. POWELL, W. F.
North-West Rebellion, 1885. Lieutenant Rocky Mountain Rangers.

91. RIDOUT, D. H. (Captain Royal Engineers.)
South African War, 1899-1900. On Staff.

92. RIVERS, V. B. (Brev. Lieut.-Colonel Royal Canadian Artillery.)
North-West Rebellion, 1885. Actions at Fish Creek and Batoche. Despatches, *Canada Gazette*, 11th July 1885. Medal with clasp. (Saskatchewan.)

93. ROGERS, H. S. (Captain Royal Engineers.)
Operations on N. W. Frontier of India, 1897-8. Operations on the Samana; also with Tirah Expeditionary Force on Line of Communication. Medal with three clasps.

94. SANDERS, G. E. (Brev. Lieut.-Colonel Reserve of Officers.)
North-West Rebellion, 1885. Inspector North-West Mounted Police. Medal. South African War, 1899-1900. Commanding Squadron, Canadian Mounted Rifles. Despatches, Brevet of Lieut.-Colonel. D. S. O.

95. SCARTH, W. H. (Inspector North-West Mounted Police.)
South African War, 1901. Captain South African Constabulary.

96. SCOTT, R. K. (Captain Royal Artillery.)
North-West Rebellion, 1885. Medal. South African War, 1899-1901. Appointed to act in a superior Departmental rank. (Army Ordnance Department.)

97. SEARS, J. W. (Major South Staffordshire Regiment.)
Egyptian Expedition, 1882 Reconnaissance of 5th August. Medal. Bronze Star. North-West Rebellion, 1885. On Staff of Battleford Column, at engagement of Cut Knife Hill, and in command of a Scout Corps in pursuit of Indian Chief Big Bear. Despatches, *London Gazette*, 7th August, 1885. Medal. South African War, 1899-1900. Despatches, *London Gazette*, 10th September, 1901.

98. SKINNER, F. St. D. (Major Royal Sussex Regiment.)
Soudan Field Force, 1885-6, as Signalling Officer, and with Egytian Army, 1886-7. Medal, 4th Class Order of the Medjidieh, and Khedive Star. Hazara Expedition 1888 with 2nd Battalion Royal Sussex Regiment. Medal and clasp. Operations on N. W. Frontier of India, 1897-8, under Sir Wm. Lockhart, 2nd Battalion Royal Sussex Regiment, with Tirah Expeditionary Force as Staff Officer at the base. Medal with two clasps.

99. SMITH, H. C. (Brev. Major Royal Dublin Fusiliers.)
Nile Expedition, 1898, Battle of Khartoum. Despatches, *London Gazette*, 4th Nov. and 9th Dec. 1898, 4th Class of the Medjidie. Egytian Medal with clasp. Medal. Operations up Blue Nile, Oct. 1898. Despatches, South African War, 1899-1901. Special Service Officer, (including service with Robert's Horse and as an Assistant to Military Governor, Pretoria); afterwards in Command Robert's Horse. Twice severely wounded. Despatches, *London Gazette*, 10th Sept. 1901, Brevet of Major.

100. STRANGE, H. B. (Captain Royal Artillery.)
North-West Rebellion, 1885. Served as A D. C. to Major-General Commanding Alberta Field Force. Action of 28th May at Frenchman's Butte. Medal with clasp. (Saskatchewan.) South African War, 1899-1900. Special Service Officer afterwards on Staff. Medal with three clasps.

101. THACKER, H. C. (Captain Royal Canadian Artillery.)
South African War, 1900-1. Adjutant, Brigade Division, Field Artillery, Canadian.

102. TILLEY, W. F. (Captain Royal Engineers.)
Burmese Expedition, 1887. Medal with clasp.

103. TOBIN, H. S. (Lieut Reserve of Officers.)
South African War, 1900-1901. Lieutenant Strathcona's Horse.

104. TOMLINSON, A, T. (Lieut. Reserve of Officers.)
North-West Rebellion, 1885. Lieutenant Midland Battalion.

105. TWINING, P. G. (Captain Royal Engineers.)
China Expedition, 1900-1. Despathes, *London Gazette*, 13th Sept. 1901.

106. VANSTRAUBENZEE, B. W. S. (Captain h.p.)
South African War, 1899-1900.

107. VANSTRAUBENZEE, C. C. (Captain Royal Artillery).
Ashanti Expedition, 1895-6. Special Service Officer. Star.

108. VANTUYL, T. W. (Captain 6th Field Battery.)
South African War, 1900-1. Lieutenant "D" Battery, Royal Canadian Artillery. (Special Service.)

109. VERNON, A. A.
South African War, 1900. Private Strathcona's Horse.

110. VONHUGEL, N. G. (Captain Royal Engineers.)
South African War, 1899-1900. Advance on Kimberley, including actions at Belmont, Enslin, Modder River (slightly wounded) and Magersfontein. Despatches, *London Gazette*, 10th September 1901.

111. WELLER, J. L. (Major Reserve of Officers.)
North-West Rebellion, 1885. Medal. Lieutenant Midland Battalion. Staff Adjutant to Major-General Laurie. Commanding Base and Lines of Communication.

112. WILBY, A. W. R (Captain South African Constabulary.)
South African War, 1901.

113. WILLETS, C. R. E. (Lieut. South African Constabulary.) South African War, 1901.

114. WILLIAMS, V. A. S. (Brev. Major Royal Canadian Dragoons.) South African War, 1899-1900. Commanding Squadron, Canadian Mounted Rifles. Despatches 2. Medal with five clasps. Brevet of Major.

115. WOOD, Z. T. (Superintendent North-West Mounted Police.) North-West Rebellion, 1885. Lieutenant 90th Battalion.

WAR SERVICES OF DECEASED MEMBERS.

116. CHALMERS, T. W. (Captain Canadian Mounted Rifles.) North-West Rebellion, 1885. Montreal Garrison Artillery. Medal. South African War, 1900-1. Killed in action at Belfast, 2nd November, 1900.

117. DENISON, E. E. A. Soudan Campaign with the Canadian Voyageurs. Medal with clasp.

118. FREER, H. C. (Captain South Staffordshire Regiment.) Egyptian Expedition 1882. Medal and Bronze Star. North-West Rebellion, 1885, A.D.C. to Major-General Middleton. Medal.

119. HENSLEY, C. A. (Captain Royal Dublin Fusiliers.) South African War, 1899-1900. Medal with two clasps. (Talana and Ladysmith.) Actions at Natal, Dundee, Farguhars Farm and Colenso, Lombard's Cop. Took part in the celebrated march from Dundee to Ladysmith, mentioned in Despatches in connection with the Armoured train from Estcourt. Slightly wounded at Colenso and Tugela. Died of wounds received in action near Venter's Spruit, 20th Jan. 1900.

120. MACKAY, H. B. (Captain Royal Engineers) Bechuanaland Expedition, 1884-5. Special Service Officer. Expedition against the Yonnies, W. C. of Africa, 1887-8. Despatches, D. S. O.

121. Osborne, J. W. (Lieut. Scottish Rifles.)
South African War, 1899-1900. Killed in action 24th Jan. 1900, at Spion Kop.

122. Robinson, W. H. (Captain Royal Engineers.)
West Coast of Africa, 1892. Killed in artion at Tambe, West Africa, while taking part in a Frontier Expedition, 14th March, 1892.

123. Sloggett, H. (Captain Royal Engineers.)
Operations against the Sofas, West Coast of Africa, 1893-4. Despatches. Medal with clasp.

124. Stairs, W. G. (Captain Welsh Regiment.)
Accompanied H. M. Stanley in the Expedition to the Relief of Emin Pasha at Wadelai, successfully accomplished after a march across the continent of Africa, occupying a period of nearly three years and involving frequent conflicts with the natives. 3rd Class of the Medjidie.

125. Wise, H. E. (Captain Derbyshire Regiment.)
North-West Rebellion, 1885. A.D.C. to Sir F. Middleton. Engagements, Fish Creek (wounded) and Bathoche. Despatches. Medal, with clasp (Saskatchewan.)

126. Wood, C. C. (Lieut. Loyal North Lancashire Regiment.)
South African War, 1899. Died from wounds received in action near Belmont, 10th Nov. 1899,

In addition to those mentioned as having served in the North-West Rebellion, Canada, 1885, the following served East of Winnipeg, on Garrison duty :—

1. Benson, T. (Brev. Lieut.-Colonel Royal Canadian Artillery.)
Lieutenant "A" Battery, Regiment of Canadian Artillery, the Citadel, Quebec.

2. Cochrane, J. B. (Captain Reserve of Officers.)
Captain, Gentlemen Cadets, Fort Frederick, Ontario.

3. Irving, L. H. Lieutenant Retired List.)
Toronto Battery, Garrison Artillery, New Fort, Toronto, Ont.

4. MACDOUGALL, J. C. (Brev. Lieut.-Colonel Royal Canadian Regiment.)
Captain 14th Battalion, Fort Henry, Kingston, Ont.

5. WURTELE, A. G. G. (Late Captain Reserve of Officers.)
Captain, Gentlemen Cadets, Fort Frederick, Ont.

6. WURTELE, E. F. (Major, 18th Regiment.)
Lieutenant "B" Service Company, 8th "Royal Rifles," the Citadel, Quebec, Que.

7. THE GENTLEMEN CADETS.
Fort Frederick, Kingston, Ont.

STATEMENT SHOWING THE WARS, ETC., IN WHICH EX-CADETS HAVE TAKEN PART AND THE NUMBER CONNECTED THEREWITH.

1.	Egyptian Expedition, 1882	2
2.	Bechuananaland Expedition, 1884-5	1
3.	North-West Rebellion, Canada, 1885	31
4.	Soudan Campaign, 1885-6	3
5.	Burmese Expedition, 1887-8	3
6.	Expedition against the Yonnies, W. C. of Africa, 1887-8	1
7.	Expedition Relief of Emin Pasha, 1887-90	1
8.	Lushai Expedition, 1888-9	1
9.	Hazara Expedition, 1888-91	3
10.	Zhob Valley Expedition, 1890-1	1
11.	Frontier Expedition, W. C. of Africa, 1892	1
12.	Isazai Expedition, 1892	1

TO BE BREVET MAJOR.

Kirkpatrick, Capt. G. M. Royal Engineers. 29 Nov. 1900

TO BE LOCAL MAJORS.

Hewett, Captain E. V. O. Royal West Kent Regt. 19 Jan. 1901

Whilst employed as Professor, R. M. C. Canada.

Hodgins, Capt. C. R. Royal Garrison Artillery. 19 Mch. 1900

Whilst temporarily Commanding the Royal Artillery in Siera Leone.

Scott, Capt. R. K. Royal Artillery. 26 Oct. 1901.

Whilst acting in a superior departmental rank in the Army Ordnance Department, South Africa.

Smith, Capt H. C. Royal Dublin Fusiliers. 6 Nov. 1900

Whilst Commanding Robert's Horse.

TO BE CAPTAINS.

Campbell, Lieut. H. B. D. Royal Engineers. 1 Apl. 1901

Hayter, Lieut. R. J. F. Cheshire Regiment. 15 Nov. 1901

Wilkes, Lieut. G. S. Royal Garrison Artillery. 1 Mch. 1901

TO BE LIEUTENANTS.

Agnew-Moore, 2nd Lieut. W.
Royal Garrison Artillery. 3 Apl. 1901

Bingay, 2nd Lieut. H. L. Royal Engineers. 29 Dec. 1901

Burrill, 2nd Lieut. R. W. S.
Royal Field Artillery. 3 Apl. 1901

Carr-Harris, 2nd Lieut. E. D.
Royal Engineers. 29 Dec. 1901

Dean, 2nd Lieut. A. C. H. Royal Garrison Artillery. 16 Feb. 1901

Denison, 2nd Lieut. G.W.	Royal Engineers.	19 Jne. 1901
Denison, 2nd Lieut. V. D.	Army Service Corps.	1 Apl. 1901
Dickey, 2nd Lieut. O. B. R.	Army Service Corps.	1 Nov. 1901
Fessenden, 2nd Lieut. J. H.	Army Service Corps.	1 Nov. 1901
Hamersley, 2nd Lt. H. St. G.	Royal Garrison Artillery.	16 Feb. 1901
Harvey, 2nd Lieut. R. D.	4th Hussars.	4 Dec. 1900
Keith, 2nd Lieut. R. C.	Royal Field Artillery.	3 Apl. 1901
Lambert, 2nd Lt. M. L. B. H.	Army Service Corps.	1 Nov. 1901
Milsom, 2nd Lieut. G. C.	Army Service Corps.	1 Apl. 1901
Peters, 2nd Lieut. J.	Indian Staff Corps.	2 Nov. 1901
Piddington, 2nd Lieut. A.	Royal Field Artillery.	3 Apl. 1901
Poole, 2nd Lieut. H. R.	Royal Garrison Artillery.	16 Feb. 1901
Reid, 2nd Lieut. H. G.	Army Service Corps.	1 Apl. 1901
Ridout, 2nd Lieut. F.W.B.	Army Service Corps.	1 Nov. 1901
Ridout, 2nd Lieut. J.Y.H.	Royal Garrison Artillery.	16 Feb. 1901
Simpson, 2nd Lieut. R.	Army Service Corps.	1 Apl. 1901
Smith, 2nd Lieut. A. E.	Royal Garrison Artillery.	16 Feb. 1901
Uniacke, 2nd Lt. C. D.W.	Royal Artillery.	23 Nov. 1901
Wilkie, 2nd Lieut. A. B.	Royal Sussex Regiment.	1 June 1901

PROMOTIONS ANTEDATED.

Beer, Capt. V. L.	Royal Garrison Artillery.	29 Sep. 1900
Denison, Lieut. G. W.	Royal Engineers.	21 May 1901
Kaulbach, 2nd Lt. H. A.	Royal Warwickshire Regt.	18 May 1900

Temporary Half Pay.

van Straubenzee, Capt. B. W. S.
South Wales Borderers. 5 Oct. 1901
On account ill-health.

Seconded.

Hayter, Lieut. R. J. F. Cheshire Regiment. 7 Nov. 1900
For Service on the Staff.

Heneker, Capt. F. C. Royal Canadians. 18 Jan. 1901
For Service with the Egyptian Army.

Hollinshead, Capt. H. N. B.
Royal Garrison Artillery. 10 Oct. 1901
For Service in the Army Ordnance Department.

Laurie, Capt. J. H. Royal Lancaster Regt. 2 Jan. 1901
For Service with Mounted Infantry in South Africa.

Lewis, Lieut. C. A. Worcestshire Regiment. 4 Apl. 1901
For Service with the Indian Staff Corps.

Morris, Capt. & Bvt. Major E. M.
Devonshire Regiment. 19 Jan. 1901
For Service with South African Constabulary.

Staff.

Caldwell, Lieut. A. C. Royal Canadian Regt. 9 April 1900
Graded as a Staff Lieut. whilst employed with the Field Intelligence Department.

Casgrain, Capt. H. P. du P.
Royal Engineers. 1 Jan. 1901
Deputy Assistant Adjutant General for Intelligence

Hollinshead, Capt. H. N. B.
Royal Garrison Artillery. 10 Oct. 1901
Ordnance Officer, 4th Class, Army Ordnance Department.

Kennedy, Capt. J. N. C. Royal Engineers. 1 Feb. 1901

Assistant Instructor in charge of Workshops, School of Military Engineering, Chatham.

Kirkpatrick, Capt. G. M. Royal Engineers. 30 Nov. 1899

Appointment confirmed as Deputy Assistant Adjutant for Intelligence.

Laurie, Capt. G. B. Royal Irish Rifles. 16 Mch. 1901

Deputy Assistant Adjutant-General whilst Special Service Officer with Mounted Infantry in South Africa.

Nanton, Capt. H. C. Royal Engineers. 6 April 1901

Assistant Director of Railways with local rank of Major in South Africa, whilst so employed.

Ridout, Capt. D. H. Royal Engineers. 10 Sep. 1900

Intelligence Officer, Graded as a Staff Captain.

Strange, Capt. H. B. Royal Artillery. 23 Nov. 1900

Deputy Assistant Adjutant General for Transport.

vanStraubenzee, Capt. B. W. S. Half Pay. 30 Oct. 1901

Temporary Instructor, R. M. College, England.

Resignations.

Cosby, 2nd Lieut. N. W. Middlesex Regiment. 23 Apl. 1901

Hayne, 2nd Lieut. G. O. 2nd Dragoon Guards. 5 Jan. 1901

Leach, 2nd Lieut. F. C. Liverpool Regiment. 22 Feb. 1901

Moren, Capt. J. A. Royal Garrison Artillery. 28 Sep. 1901

Retired, receiving a gratuity, with permission to retain his rank and wear the prescribed uniform.

CANADIAN ACTIVE MILITIA.

First Appointments to Commissions.

Reserve of Officers. Engineers.

To be Lieutenants.

Bucke, Sergt. H. L.	19 Oct. 1900
Byrne, Sergeant T. H.	19 Oct. 1900
Caldwell, Sergt.-Major B. A. C.	19 Oct. 1900
Cameron, Co. Sergt.-Major K. M.	24 Jne. 1901
Chipman, Co. Sergt.-Major A. B.	24 Jne. 1901
Harty, Gentleman Cadet W.	19 Oct. 1901
Hughes, Battn. Sergt.-Major G. B.	24 Jne. 1901
Keefer, Co. Sergt.-Major T. C.	24 Jne. 1901
MacLennan, Sergt. C. C.	24 Jne. 1901
Maynard, Corporal M. M.	24 Jne. 1901
Robertson, Sergt. C. A.	24 Jne. 1901
Stewart, Corporal A.	24 Jne. 1901
Young, Sergt. W. B.	24 Jne. 1901

The names of the undermentioned Gentlemen are included in the list of Officers of the Active Militia, in recognition of their services in South Africa, and they are transferred to the Reserve of Officers :—

To be Lieutenant-Colonels.

Sanders, Supt. G. E., D.S.O. North-West Mounted Police.	1 Aug. 1901
Macdonell, Inspector A. C., D.S.O. North-West Mounted Police.	1 Aug. 1901

To be Lieutenants.

Kirkpatrick, G. H.	Strathcona's Horse.	7 Mch. 1900
Laidlaw, G. E.	Strathcona's Horse.	7 Mch. 1900
Leckie, J. E., D.S.O.	Strathcona's Horse.	7 Mch. 1900
Magee, R. H. B.	Strathcona's Horse.	7 Mch. 1900
Tobin, H. S.	Strathcona's Horse.	7 Mch. 1900

To be Captain.

Weatherbe, Hon. Major P.	Brighton Engineers.	25 Jne. 1901
Bowie, Capt. G. S.	11th Regiment.	24 Jne. 1901

To be Lieutenants.

Anderson, Lieut. W. B.	97th Regiment.	2 Sept. 1901
Caldwell, Lieut. A. C.	14th Regiment.	13 May 1901
Macdougall, A. C.	Toronto Engineers.	30 Sept. 1901
Sherwood, Lieut. L.	14th Regiment.	15 Mch. 1901

Promotions.

To be Brevet Lieut.-Colonels.

MacDougall, Major J. C. Royal Canadian Regt. 29 Oct. 1901

Ogilvie, Major G. H. Royal Canadian Artillery. 17 May 1901
In recognition of Active Service in South Africa.

To be Majors.

Panet, H. A., D.S.O. Royal Canadian Artillery. 17 May 1901
In recognition of Active Service in South Africa.

Macdonell, Capt. A. C. Canadian Mounted Rifles. 20 May 1900

Williams, Capt. V. A. S. Royal Canadian Dragoons. 17 May 1901
In recognition of Active Service in South Africa.

To be Local Majors.

Dixon, Captain F. J.	Reserve of Officers.	7 Feb. 1901

During such term as he is employed with the Imperial Forces in South Africa.

Hodgins, Captain A. E.	Rocky Mountain Rangers.	1 Feb. 1901

During such term as he is employed on Special Service in South Africa.

To be Honorary Major.

Weatherbe, Capt. P.	Unattached List.	17 May 1901

In recognition of services rendered in connection with the preparation and organization of the Contingents for South Africa.

To be Captains.

Burstall, Lieut. & Bvt. Capt.	Royal Canadian Artillery.	6 Feb. 1901
Chalmers, Lieut. T. W.	Canadian Mounted Rifles.	7 Mch. 1901
Denison, Lieut. F. C.	Governor-General's Body Guard.	9 Aug. 1901
Gaudet, Lt. & Bvt. Major.	Royal Canadian Artillery.	6 Feb. 1901
Thacker, Lt. & Bvt. Capt. H. C	Royal Canadian Artillery.	1 Mch. 1901

To be Lieutenants.

Caldwell, Lieut. B. A. C.	42nd Regiment (Adjut.)	5 Jne. 1901
Parks, 2nd Lt. J. H.	8th Hussars.	16 Apl. 1901
Sherwood, 2nd Lt. L.	14th Regiment.	10 May 1901

Seconded.

Burstall, Capt. H. E.	Royal Canadian Artillery.	1 Mch. 1901

For duty with the South African Constabulary.

Cartwright, Capt. & Bvt. Lt.-Col. R., C.M.G.
Royal Canadian Regt. 1 May 1901
For Staff Service.

Greenwood, Lt -Col. H. S. 3rd Dragoons. 1 Jne. 1901
For Service with the Imperial Forces in South Africa

Hodgins, Capt. A. E. Rocky Mountain Rangers. 28 Mch. 1901
For Service with the Imperial Forces in South Africa.

Panet Lt. & Bt. Capt. H. A., D.S.O.
Royal Canadian Artillery. 8 Jan. 1901
While holding the appointment of Adjutant at the R. M. C.

Parks, Capt. J. H. 8th Hussars. 6 Feb. 1901
While specially employed on the Imperial Military Railways, South Africa.

Rivers, Capt. & Bvt. Lt.-Col. V. B.
Royal Canadian Artillery. 6 Feb. 1901
On appointment to Head Quarters' Staff.
Confirmation of rank. Reserve of Officers.

Dixon, Capt. & Major F. J. 7 Feb. 1901
Confirmed in the rank of Major in the Militia.

To be Brevet Captain.

Lafferty, Lieut. F. D. Royal Canadian Artillery. 2 May 1901

Reinstated.

Cosby, Lieut. N. W. 48th Regiment. 4 Jne. 1897

Transferred.

DuPlessis, Lt. & Capt. J. E. L.
Royal Canadian Artillery. 1 Jne. 1901
From Garrison to Field Division.

Thacker, Lt. & Capt. P. E. Royal Canadian Regt. 1 July 1901
From No. 4 Regimental Depot, Fredericton, to No. 5, Quebec.

STAFF.

Cartwright, Lt.-Col. R., C.M.G.
Royal Canadian Regt. 15 Apl. 1901

Inspector of Musketry with status as an Asst. Adj.-Gen. at H. Q.

Rivers, Lt.-Col. V. B. Royal Canadian Artillery. 6 Feb. 1901

Intelligence Staff Officer at Head Quarters.

SECOND IN COMMAND.

Sanders, Major G. E. Canadian Mounted Rifles. 20 May 1900

ADJUTANTS.

Thacker, Capt. H. C. Royal Canadian Artillery. 21 Mch. 1901

Thacker, Lt. & Bvt. Capt. P. E.
Royal Canadian Regt. 1 July 1901

No. 5 Regimental Depot.

ROYAL MILITARY COLLEGE OF CANADA.

DISCHARGES.

The following Gentlemen Cadets were granted their Discharges:—

Gentleman Cadet	G. W. Cox.	12 Sept. 1901
do do	H. W. Marling.	18 Oct. 1901
do do	L. A. Morrison.	5 Sept. 1901
do do	G. M. Mudie.	9 Sept. 1901
do do	C. R. Muttleburg.	10 Sept. 1901
Sergeant	H. F. Osler.	9 Sept. 1901
Gentleman Cadet	J. B. Sparrow.	3 Dec. 1901

Resignations.

Brigstocke, Capt. & Adj. R. W.	14th Regiment.	15 Mch. 1901
Fairbanks, Major C. O.	6th Field Battery.	18 Dec. 1900
Holden, Lieut. J. C.	8th Hussars.	16 Apl. 1901
Morrow, Capt. H. A.	57th Regiment.	11 Jne. 1901
Ogilvie, Major G. H.	"E" Special Service Battery, R.C.A.	21 Jan. 1901
Panet, Capt. H. A., D.S.O.	"C" S. S. Battery, R.C.A.	21 Jan. 1901
Poussette, Capt. H. R.	26th Regiment.	1 May 1901
Ritchie, Capt. H.	57th Regiment.	28 Mch. 1901
Rolston, Lieut. J. M.	14th Regiment.	15 Mch. 1901
Sanders, Maj. G. E., D.S.O.	Can. Mounted Rifles.	21 Jan. 1901
Thacker, Capt. & Adj. H. C.	Royal Can. Artillery. S. S. Brigade Division of Field Artillery.	
Warner, Capt. J. T.	8th Hussars.	4 Mch. 1901
Weller, Major J. L.	59th Regiment.	28 Feb. 1901
Williams, Major V. A. S.	Royal Canadian Dragoons. Special Service Regiment.	21 Jan. 1901

No. 38. List of Ex-Cadets Holding Commissions, Etc., 1st January, 1902.

IMPERIAL ARMY.

Cavalry.

1. Major H. P. Leader, 6th Dragoon Guards.

Royal Regiment of Artillery.

1. Major & Brevet Lieut.-Colonel H. M. Campbell, Royal Horse Artillery.
2. Major G. S. Duffus, R.F.A., 139th Battery.
3. Major P. E. Gray, R.F.A., 117th Battery.
4. Major E. J. Duffus, R.F.A., 61st Battery.
5. Captain & Local Major C. R. Hodgins, Sierra Leone Company.
6. Captain & Local Major R. K. Scott, R.G.A., Ordnance Officer, 4th Class.
7. Captain & Local Major C. C. vanStraubenzee, R.F.A., Staff, R.M.C.
8. F. E. L. Baker, R.F.A., Divisional Adjutant.
9. Captain V. L. Beer, R.G.A., Commanding Perm. Gar. Albany, W.A.
10. Captain A. M. Cayley, R.G.A., Divisional Adjutant.
11. Captain H. R. V. deBury, R.G.A., St. Lucia Company.
12. Captain H. N. B. Hollinshead, R.G.A., Ordnance Officer, 4th Class.
13. Captain G. N. Johnston, R.G.A.
14. Captain R. J. Macdonald, R.G.A., 83rd Company.
15. Captain J. A. Moren, R.G.A., 95th Company.

16. Captain R. C. Morris, R.G.A.
17. Captain H. B. Strange, R.G.A., Special Service, South Africa.
18. Captain G. S. Wilkes, R.G.A., 45th Company.
19. Lieut. W. Agnew-Moore, R.G.A., 67th Company.
20. Lieut. R. W. S. Burrill, R.F.A.
21. Lieut. W. H. N. Cantlie, R.H.A., "R" Battery.
22. Lieut. F. H. Courtney, R.G.A.
23. Lieut. A. C. H. Dean, R.G.A., 58th Company.
24. Lieut. H. St. G. Hameresley, R.G.A.
25. Lieut. R. C. Keith, R.F.A.
26. Lieut. C. W. W. McLean, R.F.A., 137th Battery.
27. Lieut. A. Piddington, R. F. A., 129th Battery.
28. Lieut. H. R. Poole, R.G.A., 56th Company.
29. Lieut. J. Y. H. Ridout, R.G.A., 91st Company.
30. Lieut. A. E. Smith, R.G.A., 28th Company.
31. Lieut. C. D. W. Uniacke, R.F.A., 31st Battery.
32. 2nd Lieut. G. T. Hamilton, R.F.A., 35th Battery.
33. 2nd Lieut. J. R. Jago, R.F.A.
34. 2nd Lieut. T. Kirkland, R.F.A., 16th Battery.
35. 2nd Lieut. J. K. G. Magee, R.F.A., 38th Battery.
36. 2nd Lieut. A. Z. Palmer, R.F.A.
37. 2nd Lieut. H. S. Stewart, R.F.A., 71st Battery.

CORPS OF ROYAL ENGINEERS.

1. Major H. C. Carey.
2. Major J. I. Lang-Hyde.

3. Major A. H. vanStraubenzee.
4. Captain & Brevet-Major Sir E. P. C. Girouard, K.C.M.G., D.S.O.
5. Captain & Brevet-Major H. G. Joly de Lotbinière.
6. Captain & Brevet-Major G. M. Kirkpatrick, p.s.c.
7. Captain & Brevet-Major H. C. Nanton.
8. Captain A. Adams.
9. Captain A. G. Bremner.
10. Captain H. B. D. Campbell.
11. Captain G.S. Cartwright.
12. Captain P. H. du P. Casgrain.
13. Captain G. M. Duff.
14. Captain C. B. Farwell.
15. Captain A. Joly de Lotbinière.
16. Captain J. N. C. Kennedy.
17. Captain W. B. Lesslie.
18. Captain W. J. McElhinney.
19. Captain A. E. Panet.
20. Captain D. H. Ridout.
21. Captain H. S. Rogers.
22. Captain T. C. Skinner.
23. Captain W. F. Tilley.
24. Captain P. G. Twining.
25. Captain N. G. VonHugel.
26. Lieut. & Local Captain B. H. O. Armstrong.
27. Lieut. H. L. Bingay.

28. Lieut. E. D. C. Carr-Harris.
29. Lieut. G. W. Denison.
30. Lieut. L. C. A. deB. Doucet.
31. Lieut. W. C. Dumble.
32. Lieut. A. S. Evans.
33. Lieut. G. R. Frith.
34. Lieut. D. S. MacInnes, D.S.O.
35. Lieut. G. F. F. Osborne.
36. 2nd Lieut. F. H. W. Archbold.
37. 2nd Lieut. E. C. Baker.
38. 2nd Lieut. G. B. Johnson.
39. 2nd Lieut. T. C. Keefer.

Territorial Regiments.

1. Major J. W. Sears, The South Staffordshire Regiment.
2. Major F. St. D. Skinner, p.s.c., The Royal Sussex Regiment.
3. Major E. T. Taylor, p.s.c., The Cheshire Regiment.
4. Capt. & Brev. Major C. M. Dobell, D.S.O., The Royal Welsh Fusiliers.
5. Capt. & Brev. Major E. M. Morris, The Devonshire Regiment.
6. Capt. & Brev. Major H. C. Smith, The Royal Dublin Fusiliers.
7. Capt. & Local Major W. C. G. Heneker, The Connaught Rangers.
8. Capt. & Local Major E. V. O. Hewett, The Royal West Kent Regiment.
9. Capt. K. B. Cameron, The Argyll and Sutherland Highlanders.

10. Captain G. N. Cory, D.S.O., The Royal Dublin Fusiliers.
11. Captain C. S. Cowie, The Royal Scots.
12. Captain J. D. Doull, The Yorkshire Light Infantry.
13. Captain J. J. B. Farley, The North Staffordshire Regiment.
14. Captain W. A. Hamilton, The Connaught Rangers.
15. Captain R. J. F. Hayter, The Cheshire Regiment.
16. Captain F. C. Heneker, The Prince of Wales's Leinster Regiment.
17. Captain G. W. Kenny, The Royal Inniskilling Fusiliers.
18. Captain G. B. Laurie, The Royal Irish Rifles.
19. Captain C. C. Luard, The Durham Light Infantry.
20. Captain G. D. Luard, The Scottish Rifles.
21. Captain H R. Payzant, The Lancashire Fusiliers.
22. Captain E. O. Smith, The Northamptonshire Regiment.
23. Captain W. F. Sweny, The Royal Fusiliers.
24. Captain C. M Stephen, The Cheshire Regiment.
25. Captain B. W. vanStraubenzee, h.p., The South Wales Borderers.
26. Lieut. E. M. Harris, The Middlesex Regiment.
27. Lieut. H. A. Kaulbach, The Warwickshire Regiment.
28. Lieut. R. St. P. Mosgrove, The Royal Sussex Regiment.
29. Lieut. E. F. Osler, The Middlesex Regiment.
30. Lieut. H. T. Skinner, The Hampshire Regiment.
31. Lieut. A. B. Wilkie, The Royal Sussex Regiment.
32. 2nd Lieut. R. J. McLaren, The West Yorkshire Regiment.
33. 2nd Lieut. F. P. Myles, The Leicestershire Regiment.

Army Service Corps.

1. Captain F. F. Duffus.
2. Captain H. W. Clinch.
3. Lieutenant V. D. Denison.
4. Lieutenant O. B. R. Dickey.
5. Lieutenant J. H. Fessenden.
6. Lieutenant M. L. B. H. Lambert.
7. Lieutenant G. C. Milsom.
8. Lieutenant H. G. Reid.
9. Lieutenant F. W. B. Ridout.
10. Lieutenant R. Simpson.
11. 2nd Lieutenant H. A. H. Oliver.

Indian Staff Corps.

1. Captain W. J. Mitchell.
2. Lieutenant G. B. Brown.
3. Lieutenant G. E. Hardie.
4. Lieutenant F. F. Hunter.
5. Lieutenant C. A. Lewis.
6. Lieutenant J. Peters.
7. Lieutenant G. H. Rogers.
8. Lieutenant H. H. Syer.
9. 2nd Lieut. R. L. C. Sweeny.

Unattached List for Indian Staff Corps.

1. 2nd Lieutenant C. C. MacLennan.
2. 2nd Lieutenant F. H. Maynard.
3. 2nd Lieutenant C. A. Robertson.

HONORARY RANK IN THE ARMY.

Lord Strathcona's Corps.

1. Hon. Major R. C. Laurie.
2. Hon. Captain R. M. Courney.
3. Hon. Lieutenant G. H. Kirkpatrick.
4. Hon. Lieutenant G. E. Laidlaw.
5. Hon. Lieutenant J. E. Leckie, D.S.O.
6. Hon. Lieutenant R. H. B. Magee.
7. Hon. Lieutenant H. S. Tobin.

THE CANADIAN MILITIA.

Permanent Force.

Cavalry.

1. Major V. A. S. Williams, The Royal Canadian Dragoons.

The Royal Canadian Artillery.

1. Captain & Brev. Lieut.-Colonel T. Benson, R.C.G.A.
2. Captain & Brev. Lieut.-Colonel G. H. Ogilvie, R.C.F.A.
3. Captain & Brev. Lieut.-Colonel V. B. Rivers.
   Seconded Intelligence Staff Officer, Headquarters Staff.
4. Captain & Brev. Major F. M. Gaudet.
   Seconded Superintendent Dominion Arsenal.
5. Captain H. E. Burstall.
   Seconded South African Constabulary.
6. Captain H. C. Thacker, R.C.G.A.
7. Lieut. & Brev. Major H. A. Panet, D.S.O.
   Seconded Staff Adjutant R. M. C. of Canada.
8. Lieut. & Brev. Captain J. E. L. du Plessis, R.C.F.A.
9. Lieut. & Brev. Captain F. D. Lafferty, R.C.F.A.

INFANTRY.

The Royal Canadian Regiment.

1. Major & Brev. Lieut.-Colonel J. C. MacDougall.
2. Captain & Brev. Lieut.-Colonel R. Cartwright, C.M.G.
   Seconded Inspector of Musketry, Headquarters Staff.
3. Captain & Brev. Lieut.-Colonel S. J. A. Denison, C.M.G.
4. Lieut. & Brev. Captain P. E. Thacker.
   Seconded Captain 2nd Canadian Mounted Rifles.

3rd Special Service Battalion.

1. Lieutenant J. C. Law.

ACTIVE MILITIA

Cavalry.

1. Lieut.-Colonel H. S. Greenwood, The Prince of Wales's Canadian Dragoons.
   Seconded for Service in South Africa.
2. Captain F. C. Denison, The Governor-General's Body Guard.
3. Captain J. H. Parks, 8th Princess Louise's N. B. Hussars.
   Seconded for Service in South Africa.
4. Lieut. R. A. Brock, The Governor-General's Body Guard.
5. Lieut. F. F. Carr-Harris, 4th Hussars.
6. Lieut. E. R. Tate, The Prince of Wales's Canadian Dragoons.

Artillery.

1. Captain T. W. VanTuyl, 6th Field Battery.

Engineers.

1. Captain & Hon. Major P. Weatherbe, Brighton Company.
2. Lieut. A. C. Macdougall, Toronto Company.

INFANTRY.

1. Lieut.-Colonel G. A. S. Hamilton, 3rd Regiment.
2. Lieut.-Colonel J. Houliston, 86th Regiment.
3. Major R. E. Kent, 14th Regiment.
4. Major Ernest F. Wurtele, 18th Regiment.
5. Captain C. J. Armstrong, 5th Regiment.
   Seconded for Service in South Africa.
6. Captain J. L. H. Bogart, 14th Regiment.
7. Captain G. S. Bowie, 11th Regiment.
8. Captain R. M. Courtney, 1st Regiment.
9. Captain A. T. K. Evans, 22nd Regiment.
10. Captain A. E. Hodgins, Rocky Mountain Rangers.
    Seconded for Service in South Africa.
11. Captain F. M. A. LaRocque, 65th Regiment.
12. Captain J. D. Mackay, 10th Regiment.
13. Captain H. H. Williams, 55th Regiment.
14. Lieutenant W. B. Anderson, 97th Regiment.
15. Lieutenant R. Blackburn, 43rd Regiment.
16. Lieutenant A. C. Caldwell, 14th Regiment.
17. Lieutenant B. A. C. Caldwell, 42nd Regiment (Adjutant).
18. Lieutenant N. W. Cosby, 48th Regiment.
19. Lieutenant W. R. Greig, 59th Regiment.
20. Lieutenant W. B. Kingsmill, 10th Regiment.
21. Lieutenant W. L. Mathews, 10th Regiment.
22. Lieutenant L. Sherwood, 14th Regiment.
23. Lieutenant A. W. P. Weston, 66th Regiment.

RESERVE OF OFFICERS

Cavalry.

1. Major R. G. E. Leckie.
2. Captain J. W. Domville.
3. Lieutenant J. C. Holden.
4. Lieutenant R. H. Strickland.
5. Lieutenant J. T. Warner.

Artillery.

1. Major G. R. Hooper.
2. Captain J. A. Hesketh.
3. Lieutenant F. B. Wilson.

Engineers.

1. Major W. M. Davis.
2. Major F. J. Dixon.
3. Captain J. H. Baker.
4. Captain H. Clarke.
5. Captain J. B. Cochrane.
6. Captain E. T. B. Gillmore.
7. Captain E. W. Hubbell.
8. Captain H. J. Lamb.
9. Captain D. MacPherson.
10. Captain W. F. VanBuskirk.
11. Lieutenant R. C. F. Alexander.
12. Lieutenant M. B. Almon, Jr.
13. Lieutenant L. J. A. Amos.

14. Lieutenant M. C. E. Amos.
15. Lieutenant F. Anderson.
16. Lieutenant F. C. Anderson.
17. Lieutenant T. V. Anderson.
18. Lieutenant E. C. Baker.
19. Lieutenant K. J. M. Baldwin.
20. Lieutenant J. E. Beatty.
21. Lieutenant C. W. Bermingham.
22. Lieutenant C. H Branscombe.
23. Lieutenant E. P. Brown.
24. Lieutenant H. L. Bucke.
25. Lieutenant T. H. Byrne.
26. Lieutenant K. M. Cameron.
27. Lieutenant D. C. Campbell.
28. Lieutenant W. B. M. Carruthers.
29. Lieutenant R. C. H. Cassels.
30. Lieutenant C. E. Cartwright.
31. Lieutenant A. R. Chipman.
32. Lieutenant J. M. Clapp.
33. Lieutenant G. C. Clarke.
34. Lieutenant C. R. F. Coutlee.
35. Lieutenant J. A. Coryell.
36. Lieutenant F. L. Crawford.
37. Lieutenant A. W. Daniel.
38. Lieutenant A. L. P. Davis.

39. Lieutenant F. Davis.
40. Lieutenant C. F. J. B. de Boucherville.
41. Lieutenant C. A. Desbrisay.
42. Lieutenant A, E. Doucet.
43. Lieutenant F. Drayner.
44. Lieutenant E. H. Drury.
45. Lieutenant W. G. B. Dunscomb.
46. Lieutenant F. B. Emery.
47. Lieutenant B. H. Fraser.
48. Lieutenant J. F. Fraser.
49. Lieutenant E. Ford.
50. Lieutenant F. N. Gibbs.
51. Lieutenant J. G. Gibson.
52. Lieutenant H. D. L. Gordon.
53. Lieutenant W. W. Grant.
54. Lieutenant R. H. Harcourt.
55. Lieutenant G. H. R. Harris.
56. Lieutenant W. Harty.
57. Lieutenant G. O. Hayne.
58. Lieutenant J. G. Hearn.
59. Lieutenant H. H. Hogan.
60. Lieutenant W. J. H. Holmes.
61. Lieutenant G. B. Hughes.
62. Lieutenant G. A. Inksetter.
63. Lieutenant D. F. Jones.

64. Lieutenant H. W. Johnston.
65. Lieutenant J. F. E. Johnston.
66. Lieutenant F. M. Kerby.
67. Lieutenant W. A. H. Kerr.
68. Lieutenant A. K. Kirkpatrick.
69. Lieutenant G. H. Kirkpatrick.
70. Lieutenant G. E. Laidlaw.
71. Lieutenant L. M. Lambe.
72. Lieutenant F. H. Latimer.
73. Lieutenant R. C. Laurie.
74. Lieutenant F. E. Leach.
75. Lieutenant A. G. T. LeFevre.
76. Lieutenant R. W. Leonard.
77. Lieutenant W. B. Lindsay.
78. Lieutenant H. E. Low.
79. Lieutenant R. H. B. Magee.
80. Lieutenant E. St. J. Maunsell.
81. Lieutenant A. J. Matheson.
82. Lieutenant L. P. Morrison.
83. Lieutenant H. M. Muckleston.
84. Lieutenant J. McL. Mudie.
85. Lieutenant E. C. Musgrave.
86. Lieutenant J. M. Mylne.
87. Lieutenant A. C. Macdonald.
88. Lieutenant W. Mackenzie.

89. Lieutenant O. C. Macpherson.
90. Lieutenant R. McColl.
91. Lieutenant W. McConkey.
92. Lieutenant N. B. McLean.
93. Lieutenant B. McLennan.
94. Lieutenant G. B. McLeod.
95. Lieutenant J. F. McParland.
96. Lieutenant J. N. Newcomb.
97. Lieutenant C. P. Newman.
98. Lieutenant M. W. Neyland.
99. Lieutenant J. F. O'Connor.
100. Lieutenant F. B. Osler.
101. Lieutenant F. T. Patterson.
102. Lieutenant E. H. Pense.
103. Lieutenant A. B. Perry.
104. Lieutenant E. Poole.
105. Lieutenant P. C. H. Primrose.
106. Lieutenant H. McM. Rathbun.
107. Lieutenant F. D. Reid.
108. Lieutenant J. A. Riddell.
109. Lieutenant J. W. Rolston.
110. Lieutenant R. L. Roe.
111. Lieutenant G. G. Rose.
112. Lieutenant A. B. Ross.
113. Lieutenant A. M. Russell.

114. Lieutenant R. W. Simpson.
115. Lieutenant W. F. Sparrow.
116. Lieutenant J. Spelman.
117. Lieutenant J. A. Stairs.
118. Lieutenant A. Stewart.
119. Lieutenant W. J. Stewart.
120. Lieutenant W. H. Sullivan.
121. Lieutenant J. B. F. Taylor.
122. Lieutenant H. S. Tobin.
123. Lieutenant A. T. Tomlinson.
124. Lieutenant R. E. Tyrwhitt.
125. Lieutenant F. H. Vercoe.
126. Lieutenant D. Weatherbe.
127. Lieutenant A. R. Wetmore.
128. Lieutenant F. W. White.
129. Lieutenant J. White.
130. Lieutenant E. A. Whitehead.
131. Lieutenant Z. T. Wood.
132. Lieutenant J. Woodman.
133. Lieutenant B. W. Yates.
134. Lieutenant W. G. Yorston.
135. Lieutenant W. B. Young.

MOUNTED RIFLES.

1. Lieutenant-Colonel A. C. Macdonell, D.S.O.
2. Lieutenant-Colonel G. E. Sanders, D.S.O.

3. Lieutenant G. H. Kirkpatrick.
4. Lieutenant G. E. Laidlaw.
5. Lieutenant J. E. Leckie, D.S.O.
6. Lieutenant R. H. B. Magee.
7. Lieutenant H. S. Tobin.

INFANTRY.

1. Major J. L. Weller.
2. Captain R. W. Brigstocke.
3. Captain H. A. Morrow.

SENIORITY LIST. FIELD OFFICERS.

CANADIAN MILITIA.

1. Lieutenant-Colonel V. B. Rivers, R.C.A.
2. Lieutenant-Colonel T. Benson, R C.G.A.
3. Lieutenant-Colonel R. Cartwright, C.M.G., R.C.R.
4. Lieutenant-Colonel H. S. Greenwood, 3rd Dragoons.
5. Lieutenant-Colonel J. Houlistin, 86th Regiment.
6. Lieutenant-Colonel G. A. S. Hamilton, 3rd Regiment.
7. Lieutenant-Colonel G. H. Ogilvie, R.C.F.A.
8. Lieutenant-Colonel G. E. Sanders, D.S.O., R.O.
9. Lieutenant-Colonel A. C. Macdonell, D.S.O., R.O.
10. Lieutenant-Colonel J. C. MacDougall, R.C.R.
11. Lieutenant-Colonel S. J. A. Denison, C.M.G., R.C.R.
12. Major G. R. Hooper, R.O.

13. Major R. G. E. Leckie, R.O.
14. Major J. L. Weller, R.O.
15. Major R. E. Kent, 14th Regiment.
16. Major C. O. Fairbank, R.O.
17. Major F. M. Gaudet, R.C.A.
18. Major C. C. vanStraubenzee, R.M.C.
19. Major Ernest F. Würtele, 18th Regiment.
20. Major Francis Joseph Dixon, R.O.
21. Major V. A. S. Williams, R.C.D.
22. Major H. A. Panet, D.S.O., R.C.A.
23. Major A. E. Hodgins, Rocky Mountain Rangers.

RECAPITULATION.

Imperial Army.

Cavalry	1
Royal Regiment of Artillery	37
Corps of Royal Engineers	39
Territorial Regiments	33
Army Service Corps	11
Indian Staff Corps	9
Unattached List	3
Lord Strathcona's Corps	7

Canadian Militia.

Cavalry (Royal Canadian Dragoons)	1
Royal Canadian Artillery	1

Royal Canadian Infantry	4
Royal Canadian Infantry, S. S. Battalion	1
Cavalry	6
Artillery	1
Engineers	2
Infantry	23
Reserve of Officers,	
Cavalry	5
Artillery	3
Engineers	135
Mounted Rifles	7
Infantry	3
Field Officers. Seniority List	23

No. 39, The Royal Military College of Canada.

Staff.

Lieut.-Colonel R. N. R. Reade, Shropshire Light Infantry, was appointed Commandant of the College, vice Colonel Kitson, appointed Military Attaché to the British Embassy at Washington, U. S. A., 15th February, 1901, and assumed the duties on his arrival from England, 21st March, 1901.

Major C. C. vanStraubenzee, R.A., acted as Commandant from the 1st of November, 1900, to the 20th of March, 1901.

Lieutenant C. B. O. Simons, R.E., was granted the Local Rank of Captain whilst employed as Assistant Professor, Royal Military College, 19th January, 1901.

Lieutenant L. Sherwood, 14th Regiment, resigned the appointment of Assistant Instructor in Civil Engineering, 31st October, 1901.

Regulations and Orders for the Militia.

Royal Military College Certificates.

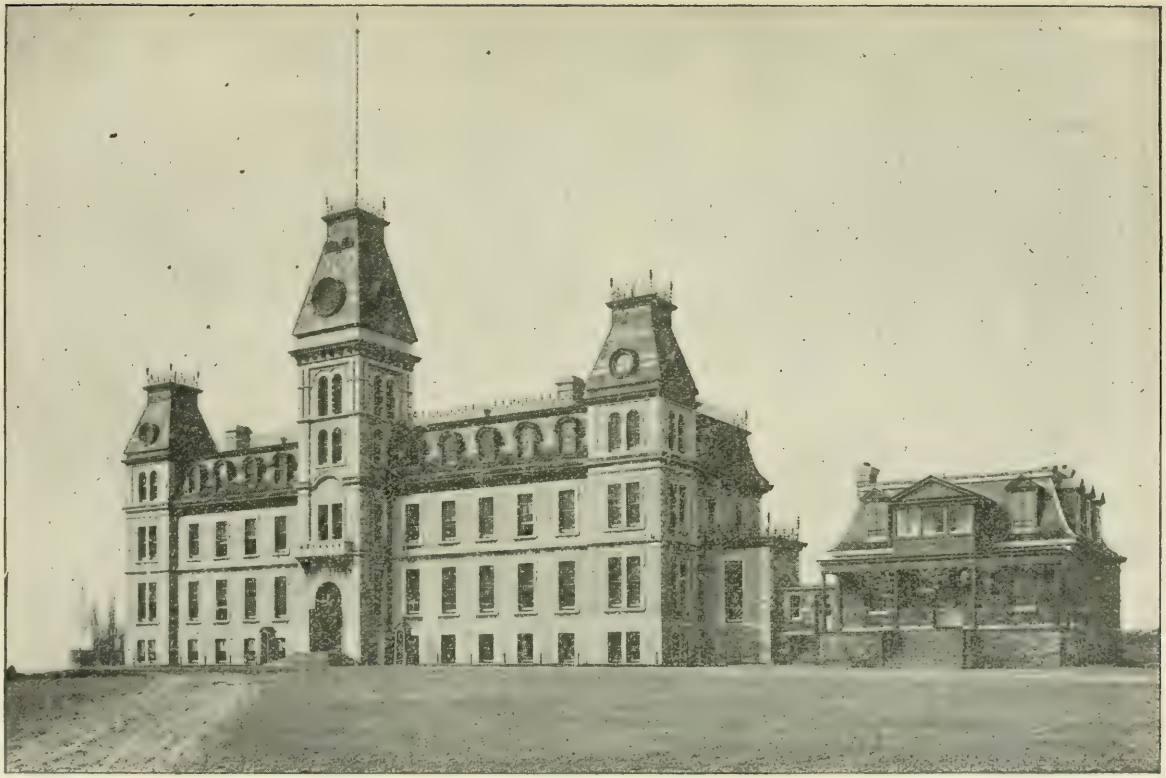
To Part 1, Section XIV, add a new paragraph 65 (*a*) as follows :—

65 (*a*). A Certificate of graduation for the Army from the Royal Military College at Sandhurst or Woolwich, shall, upon the holder being appointed to substantive rank in the Militia, be deemed equivalent to a Certificate of graduation from the Royal Military College of Canada.

Strength.

On the 31st of October, 1901, there were 75 Gentlemen Cadets on the strength of the College. Of these 13 graduated in June, 1901, 2 received Commissions in the South African Constabulary, and 5 were withdrawn, a total decrease of 20.

On September 1st, 1901, there were 55 old Gentlemen Cadets and 33 new ones—a total of 88. Of these, up to 31st December, 1901, 3 have been withdrawn and 1 has received a Commission in the 2nd Canadian Mounted Rifles, of the Canadian Contingent, leaving a total of 84.



ROYAL MILITARY COLLEGE OF CANADA.

Educational Block with addition of new Hospital. Photograph by Capt. J. B. Cochrane, R.O., R.M.C.

Lectures at McGill College, Montreal.

In April, fourteen Gentlemen Cadets attended lectures at McGill College, Montreal, in the Applied Science Department. They were in charge of Professor Butler, of the Civil Engineering Department of the College.

Boards of Examiners for entrance to the College.

Boards of Officers were appointed to conduct the examinations for admission to the College, which commenced on the 14th of May.

Among the Members were :—

No. 1 M.D. (London). Lieut.-Colonel S. J. A. Denison, C.M.G., R.C.R.

No. 3 & 4 M.D. (Kingston). Lieut.-Colonel G. Hunter Ogilvie, R.C.A.

Board of Visitors.

The Board of Visitors met at the College on the 4th of June and adjourned on the 8th of the same month. Before their departure they were entertained at Dinner by the Staff.

The Quebec Review.

On the 17th of September, the Gentlemen Cadet Battalion under the command of the Commandant, Lieut.-Colonel Reade, took part in the Review held in Quebec by His Royal Highness the Duke of Cornwall and York.

New Buildings and Repairs.

The new Hospital and the extension to the dormitory building were begun, and when completed will be of great benefit to the College. An electric light plant was under construction. This will also provide for the lighting of the main road through the College grounds and the servants' cottages. Although the cost of a new Gymnasium was included in the Estimates for 1901-02, nothing was done in that direction. Improvements were made to the Rifle Range.

A 6-Pr. Q. F. Gun, and a Maxim, have been added to the College armament.

Annual Prizes.

The following were the winners of the Governor-General's Medals, for the highest aggregate of marks during the entire course :—

Governor-General's Gold Medal. Bn. Sergt.-Major G. B. Hughes.

Governor-General's Silver Medal. Co. Sergt.-Major K. Cameron.

Governor-General's Bronze Medal. Co. Sergt.-Major A. R. Chipman.

Conduct Prize, Sword of Honour. Bn. Sergt.-Major G. B. Hughes.

Dominion Artillery Association Prizes.

First Class. Co. Sergt.-Major K. Cameron.

Second Class. Gentleman Cadet M. L. Gordon.

The Commandant's Musketry Prize (young soldiers' course).

Gentleman Cadet G. R. Francis.

Visit of their Royal Highnesses the Duke and Duchess of Cornwall and York.

On the 15th of October, 1901, their Royal Highnesses the Duke and Duchess of Cornwall and York, accompanied by His Excellency the Governor-General and the Premier of Canada, Sir Wilfrid Laurier, visited the College. They witnessed a parade of the Cadets, a march past, artillery drill, and a gymnastic display; the last mentioned being so fine as to elicit the Duke's warm expressions of approval. The whole proceedings were most creditable to the Commandant, his staff and the Cadets, and very much impressed the Royal Party.

Gifts to the College.

Through the kindness of the Commandant, Lieut.-Col. Reade, the following letter is published for the information of the Members :—

H. M. S. "Ophir,"
Oct. 20th, 1901.

Dear Colonel Reade,—

I am directed by His Royal Highness the Duke of Cornwall and York to forward you an engraving of Her late Majesty, Queen Victoria, for the Royal Military College, which I trust will arrive safely.

His Royal Higness at the same time wishes me to express the great pleasure it gave him to inspect the Cadets, and his admiration of the smart manner in which they performed their drill and gymnastics.

Yours very truly,
(Signed), Crichton,
Capt., A.D.C.

Lt.-Col. Reade,
Royal Military College,
Kingston, Ont.

In addition to the picture of the late Queen, the Duke of York presented engravings of himself and the Duchess of York to the College, and promised to send two of the King and Queen. All will find a place in the Mess Room.

The Closing Exercises.

On Tuesday, the 25th of June, the closing exercises took place. Hon. Dr. Borden, Minister of Militia and Defence; Major-General O'Grady-Haly, G.O.C., Colonel Cotton, Rev. Principal Grant, Queen's College, and other distinguished visitors were present.

The programme was more interesting than usual After the Infantry parade, a temporary pier was blown up. An exhibition of bridge building by the Second Class followed, the strength of the structure being tested by drawing several field guns over it. The bridge, a single lock affair, was destroyed by dynamite. Repository drill by the Second Class and a splendid exhibition of gymnastics closed the field proceedings.

The Annual Report of the Commandant and the presentation of prizes followed. Lieut.-Col. Reade, in the course of his address, said that at the commencement of the term there were 75 Cadets, and after providing for a reduction of this number by the present Graduating Class, he estimated that with the addition of the recruits in September the number would be in the vicinity of 97.

He was able to report that the conduct of the Cadets had been satisfactory. The health on the whole has been good. The most serious cases of illness were: Typhoid fever, one case; scarlet fever, three cases. The Medical Officer reported that during the winter there was a certain amount of influenza and bronchitis, due in a certain measure to the state of the gymnasium. Otherwise he considered the health of the Cadets to have been particularly good, and he drew special attention to their increase in measurements and weight. A new hospital was being built, also new and improved bath-rooms and drainage placed in the dormitory building. A good standard of drill, both Infantry and Artillery, had been maintained. Special attention had been de-

voted to gymnastics with excellent results. The results of the rifle shooting of the first and second classes were fair, and that of the third class, preliminary course, very promising. The revolver shooting, however, required improvement. The first, of what he hoped will be an annual series of competitions, took place on June the 1st, between the R.M.C., Canada, and the R.M.C., Sandhurst, and resulted in the former winning the competition for rifle shooting, although they failed to secure that for revolver. The results in riding were not as good as they should have been. This was partly due to the change in the teaching staff, necessitated by the South African War. He hoped by carrying out certain alterations, suggested by the Professor of Signalling, to improve next year the results in that very important branch of Military training. The mid-summer examinations are, to some extent, disappointing ; but it must be remembered that the present first class was depleted of many of its best men last year, who had left to take Commissions. The result is that whilst those at the top of the list well maintain the credit of the College, those lower down, as well as those who are permitted to graduate after a supplementary examination, possess a somewhat unequal knowledge.

Hon. Dr. Borden made a brief address, brief, he said, "because this school is for action rather than for words." He was forced to conclude that the Royal Military College is maintaining its high state of efficiency. Referring to the graduates, Dr. Borden spoke chiefly about the high standing taken by B. S. M. Hughes, son of his old friend, and political opponent, Lieut.-Col. Sam. Hughes, who was present. The young graduate had before him the very noble example of a father who had distinguished himself, not only in Canada, by the interest he displayed in her defence, but in a wider field, in maintaining the glory of the Empire in South Africa. Upon the Graduates, the Minister said, rested a very serious responsibility. They are Graduates of a College, not a quarter of a century old, but which has sent out more men, who have signally distinguished themselves, than any other

College within the Empire, in proportion to size. He hoped the Graduates would be content to remain in Canada, casting in their lot with and helping to develop the country. Dr. Borden then told of the College being founded by the late Hon. Alexander Mackenzie. Its objects have not all been fulfilled, but the speaker declared that even an opponent of the College would agree that the Royal Military College has done as much as any other institution to make Canada known throughout the world. Fully 80% of the Graduates have remained within the Empire, and he hoped that this would continue.

Major-General O'Grady-Haly said he could cordially bear testimony to what the Royal Military College has done for the British Army. Its Graduates have taken the highest place and have availed themselves of the opportunity of gaining distinction.

He hoped there would always be 80% if not more, of the Graduates remain in the Empire, and that they would not forget that we have an Army in Canada, in which there is room and a welcome for every Cadet who could throw in his lot with the national Army. Some of the best men in it, the Major-General said, are Graduates of the Royal Military College.

Lieut.-Colonel Reade tendered his cordial thanks to the Minister of Militia and the Major-General for there presence. On behalf of the College, he asked the distinguished visitors to use their influnce in bringing their Royal Highnesses to Kingston.

After the usual cheers the proceedings terminated.

Extract from Report of the G.O.C., year ended December 1900 :—

I visited the Royal Military College, Kingston, and was much pleased with the institution in every way. The Cadets

appeared to be very smart, well drilled and intelligent body of young men, and their conduct and diligence was reported to be most satisfactory. That so many of the Gentlemen Cadets receive Commissions in the Imperial Service, proves the excellence of the education afforded by the curriculum of the College, and it is a matter of very great regret that after receiving such a sound military training so few of the Cadets join the Military service of their own country, while such a large proportion seek a market for their acquirements in the United States. I beg to urge that in view of the cost to the State of the education of these young gentlemen, it would be a national economy to offer them some practical inducement to secure their services to the Active Militia and the Permanent Corps.

No. 40, Extension of Term of Instruction, Etc., at College.

At the request of the Commandant, Lieut.-Col. Reade, the following suggestions were forwarded to him by the Club :—

From the Royal Military College Club.

To the Commandant, Royal Military College of Canada.

Quebec, 25th May, 1901.

Sir,—

1. In compliance with your request communicated by Major vanStraubenzee, the undersigned, President and Secretary of the Royal Military College Club, have the honour to submit for the favour of consideration, the following remarks concerning the extension of the term of instruction at the Royal Military College, from three to four years.

2. The Club has for some time past been in receipt of communications from many of its members, serving in the Army, Militia, and occupying responsible civil appointments, urging the extension of the course of instruction to four

years as heretofore, in addition to which, it has been the unanimous opinion of the last two Annual Meetings that the proposed change should be carried out. Some of the considerations leading to this conclusion may be summarized as follows :—

3. It is felt that the necessity which at one time existed for a reduction in the length of the College course has, owing to the wise measures adopted by the Department of Militia and Defence, happily ceased to exist,and that the Graduates accepting Commissions in His Majesty's Army require as much training as their predecessors if the standing attained by the latter is to be maintained. It will be observed that the keen competition for admission to Woolwich and Sandhurst, which ensures that the successful candidate shall be thoroughly grounded, has not as yet existed here, where the passing of a qualifying examination has, as a rule, been sufficient. Under existing regulations governing retirement on account of age, an officer's prospects will not be injuriously affected by entering the Army one year later.

4. As regards civil employment, the final year, under the old order of things, was probably the most important, being devoted almost entirely to Civil Engineering, Chemistry, Physics, and Mathematics ; that a sound knowledge of these branches is invaluable, in civil life, where attainments in these particular subjects are perhaps more essential than in the Army, will be testified to by all our Members who have had experience.

5. The effects of graduating Cadets in three years have not as yet made themselves felt, but that this is only a question of time cannot be doubted. Under the provisions of the Royal Warrant for Pay, etc., we share with Woolwich and Sandhurst the proud privilege of furnishing Officers to all branches of the Army, and the advisability of safe-guarding this privilege will no doubt suggest itself. Neglecting to maintain a suitable standard of education might compel the

Imperial Government to withdraw this valuable concession, and the disastrous effect this would have on the future of the College needs no explanation.

6. As regards Civil Engineering, all are aware that the magnificent equipment of McGill offers advantages which we can never hope to excel, and while it is perhaps undesirable that a Government Institution should enter into competition with the Chartered Universities of the Dominion, it is nevertheless of paramount importance that those Graduates, who do not elect to accept Commissions, and take up the Engineering profession, should be fitted to meet their "Confrères" with fair prospects of success in wholesome professional competition, and imbued with an "esprit de corps" which will cause them to look back with pride on their Alma Mater. That these objects can be attained under existing conditions, there is grave reason to doubt.

7. Our thanks are due to you, Sir, for the courtesy extended in inviting our opinion on this question, in which we take the liveliest interest, and we venture to express the hope that when presenting the matter for consideration you may see fit to embody in your report, for the information of the Honourable the Minister of Militia and Defence, the views we have the honour to offer.

On behalf of the Members of the Royal Military College Club,

We have the honour to be,
Sir,
Your obedient servants,

(Signed), F. M. Gaudet,
Major, R.C.A.,
President.

(Signed), Ernest F. Wurtele,
Major, 18th Regiment,
Hon. Secretary-Treasurer.

On the 10th of June additional suggestions were forwarded dealing with the following matters connected with the College course :—

1. Age of admission to be from 15 to 20.

2. Fees.

First year.....	$ 350.00	
Second year....	250.00	
Third year.....	200.00	
Fourth year....	200.00	
	———Total....	$1,000.00

3. The Auditor General's Report establishes the cost of the College to be as follows for the years stated :—

1891-92.....	$ 63,949.31
1896-97.....	59,616.08
1897-98.....	58,231.77
1898-99.....	65,394.66
1899-00.....	69,230.50

from which it appears that the reduction in length, of course, has not reduced cost of maintenance.

Lieut.-Colonel Reade was pleased to write that he would attach the Reports sent to him to any Report he would make on this subject to the Department of Militia and Defence.

No. 41, Electric Plant at the Royal Military College.

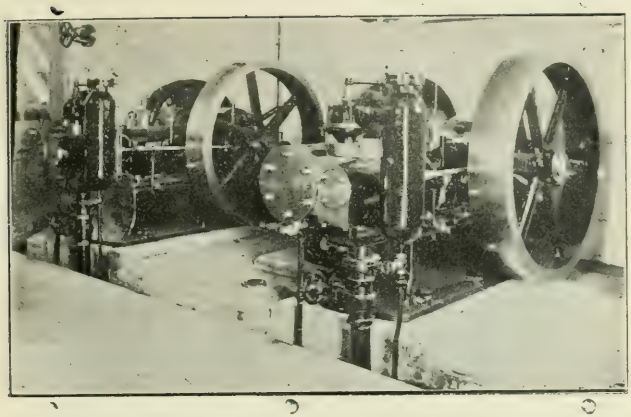
Reprinted by permission from the "Canadian Electrical News."

Illustrations loaned by Messrs. Breck & Halliday, Kingston.

The Militia Department has added to the Equipment of the Royal Military College at Kingston an electric plant. The installation was carried out by Messrs. Breck & Halliday, the well known electricians of that city. The plant consists of two direct connected units and sixty chloride accumulator cells. The generators are of the very latest C. G. type, known as form L. They have a capacity of 25 kilowatts each at 125 volts, and a speed of 305 revolutions. These generators have the improved form of brush-holders, with hand-wheel adjustment.

POWER HOUSE.

They are connected to 9 × 10 Ideal engines, manufactured by the Goldie & McCulloch Company, of Galt. The switch-board is a fine piece of work. It consists of three panels of blue Vermont marble, each 62 × 24 inches and 2 inches thick. Each generator panel is equipped with a Weston round pattern volt and ammeter, ground detector, dynamo and circuit switches, rheostats, etc. There is a storage battery panel, with two divided scale Whitney ammeters and one C. G. E. estatic voltmeter.



ENGINES AND GENERATORS.

There are also a main charging rheostat and equalizing rheostat. A double pole, double throw charge and discharge switch, main battery switch, and I. T. E. underload and overload circuit breakers are features of the battery panel. The entire switch-board is equipped throughout with Sach's "Noark" fuses.

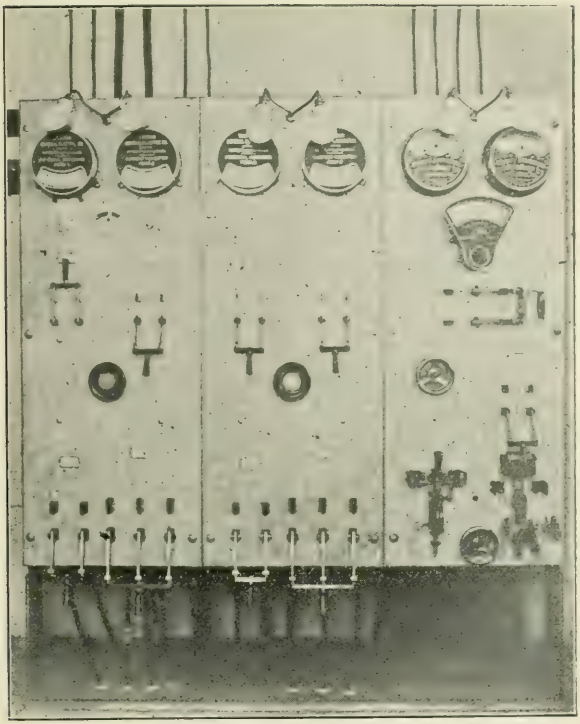
The storage battery consists of sixty cells (chloride accumulator), having a capacity of 400 ampere hours, with a normal discharge rating of 50 amperes. The battery is located in the dynamo room and enclosed in a glass partition. All connections inside the battery room are made with lead encased cables. The battery voltage is regulated by means of a Crouse Hinds end cell switch. The charging of the battery is accomplished during the time of lighting by throwing the cells into two series parallel groups of thirty cells each. The current is controlled by means of a large Cutler Hamer rheostat in the main circuit. An equalizing rheostat of the same type is also placed in the charging circuit to regulate the current passing through each series of cells. After 11 p.m. the load will be comparatively light

and will be carried by the storage battery, which will be charged during the hours of lighting when the load on the dynamo is light.

BATTERY ROOM.

The Militia Department has under consideration the advisability of installing an electric pump in the College for fire protection. At present the Kingston Fire Brigade, one mile from the College, has to be depended upon. In the event of the electric pump being placed in position, the storage battery, which will always be kept fully charged, will be utilized to operate the pump motor until such time as steam can be raised and the engines started.

The Power House is situated about 1,500 feet from the main building. The current is carried to this building by a 500,000 C.M. Cable. The gymnasium, officers' quarters, and hospital are fed from a centre of distribution in this building. There are three separate lines from the Power House to supply the avenue, the dormitory buildings and the servants' quarters. The boiler plant is made up of two shell boilers, each 14 feet long, 48 inches in diameter, of 50 horse power, and equipped throughout with brass mountings.



SWITCH-BOARD.

They were built by Messrs. Selby & Youlden, of the Kingston Foundry. Improved Penberthy injectors are used as an auxiliary to the feed pump. There is also a heater in connection with the plant. Government standard pop safety valves are connected with the boilers. All steam piping is encased in magnesia covering, and steam separators are connected to the engines.

The College buildings are wired for 500 lights of 16 candle-power. The grounds and avenues throughout are at night brilliantly illuminated by arc and incandescent lamps. That plant cost between $8,000 and $10,000, and is the most modern that could be purchased.

The photographs from which the accompanying illustrations were made, were taken by Mr. Harry Breck, Kingston.

No. 42. The North-West Mounted Police.

On the 1st January, 1902, the following Members were connected with the North-West Mounted Police, and stationed as shown herewith :—

A. Bowen Perry,
Commissioner, Regina.

Z. T. Wood,
Superintendent, Commanding Yukon Territory, Dawson.

G. E. Sanders, D.S.O.,
Superintendent "E" Division, Calgary.

P. C. H. Primrose.
Superintendent "B" Division, Dawson.

A. C. Macdonell, D.S.O.,
Inspector and Acting Adjutant, Regina.

W. H. Scarth,
Inspector. On six months' leave, attached to the S.A.C.

D. A. E. Strickland,
Inspector "F" Division, Prince Albert.

G. S. Worsley,
Inspector "C" Division, Calgary.

P. M. J. A. LaRocque,
Inspector, Regina.

Extract from the Annual Report of the Commissioner, A. Bowen Perry, in connection with the Royal Tour through the North-West Territories :—

"On Superintendent Sanders, D.S.O., Commanding at Calgary, a large share of preliminary work fell, and his

arrangements for the camp, and for the feeding of horses and men were very satisfactory.

Inspector A. C. Macdonell, D.S.O., Adjutant, deserves great credit for the careful manner in which he drew up the instructions, and for the efficient way in which he performed his duties."

The following is an outline of the duties performed by Superintendent G. E. Sanders, D.S.O., Commanding "E" Division, in connection with the Royal Tour in the North-West Territories :—

A provisional Battalion of the force was concentrated at Calgary, of a total strength of 244. The selection of a site for the camp, arrangements for supplies and camp equipment, messes, cooking, etc. Horses to be got into such training that no matter what unusual sight or noise they might meet with they would remain quiet.

A parade ground was prepared for the inspection.

Arrangements were made for assisting the Indian Department in connection with the gathering of Indians.

Preparations for the lunch given Their Royal Highnesses by the Officers of the North-West Mounted Police.

Main barracks painted, kalsomined and generally renovated.

Arrangements with the C. P. R. local authorities for quickly entraining and disentraining horses and men.

Distribution of medals, at request of Militia Department.

The official programme included inspection of the North-West Mounted Police, and presentation of medals, great assembly of Indian tribes, luncheon with the Officers of the Force, typical North-West exhibition, etc.

On the completion of the Review, His Royal Highness was graciously pleased to express to Commissionor Perry, his great satisfaction with the appearance of the men and horses, and their steadiness on parade.

No. 43, The Death Roll.

During the year, we sustained a loss by death of three Members. One killed in action in South Africa, and two died from other causes.

The Late Captain John Haliburton Laurie,
Royal Lancaster Regiment.

Joined the College as a Cadet, 7th September, 1881.

Left the College, 30th June, 1885.

An account of the death of the above Officer will be found under the heading of "Casualties in the Boer War, 1899-1901.

THE LATE FRANK MASKELYNE LOCKHART GORDON.

Joined the College as a Cadet, 1st September, 1891.

Left the College, June, 1894.

He was born on the 1st of March, 1875, and was educated at the Toronto Church School. At the age of seventeen he passed second into the Royal Military College, leaving at

the end of his third class after two years, to take up law. He joined the Osgoode Law Society the following Autumn, taking the five years' course, and was called to the bar and admitted as a Solicitor October, 1899; during this period he was a student in Messrs. Gordon and Sampson's Office, also with Messrs. Dewart and Raney, where he saw considerable criminal work under Mr. Dewart, who was Crown Attorney. In June, 1900, he was taken into partnership with Messrs. Gordon and Sampson, and was a partner of this firm at the time of his death. He died after a short illness of pneumonia, on the 13th of August, 1901, aged 26 years.

THE LATE CHARLES FREDERICK WILLIAM THOMAS.

Joined the College as a Cadet, 1st September, 1888.

Left the College, 11th July, 1890.

Mr. C. F. W. Thomas died in Quebec on the 13th of September, 1901, aged 30 years. His funeral took place on Sunday, the 15th of that month, and proceeded to Point Levi for Lister, Que., where the interment took place.

No. 44, The Canadian Society of Civil Engineers.

The names of Members connected with the above Society during the year are submitted herewith, in order to keep the record up to date, and as a continuation of the reports in the two previous years.

Members. (M. Can. Soc. C. E.)

J. L. Weller..... M. 1899.

Transferred from the Class of Associate Member to the Class of Member.

C. R. F. Coutlee..... S. 1888. A.M. 1894. M. 1901.

Associate Members. (A.M. Can. Soc. C. E.)

B. H. Fraser..... A.M. 1900.

A. G. T. LeFevre..... S. 1898. A.M. 1899.

N. B. McLean..... A.M. 1899.

W. H. Sullivan..... A.M. 1889.

D. Weatherbe..... A.M. 1899.

P. Weatherbe..... A.M. 1899.

TRANSFERRED FROM THE CLASS OF STUDENT TO THE CLASS OF ASSOCIATE MEMBER.

A. J. Matheson ..... S. 1895. A.M. 1899.

Students. (Stud. Can. Soc. C. E.)

K. M. Cameron ..... S. 1901.

R. H. Harcourt ..... S. 1901.

G. B. Hughes ..... S. 1901.

T. C. Keefer ..... S. 1901.

C. C. McLennan ..... S. 1901.

A. C. MacDougall ..... S. 1901.

J. M. Mudie ..... S. 1901.

F. H. Maynard ..... S. 1901.

H. F. Osler ..... S. 1901.

W. F. Sparrow ..... S. 1901.

ELECTED CORPORATE MEMBERS UNDER THE QUEBEC ACT, VIC. 61, CHAP. 32.

Associate Members. (A. M. Can. Soc. C. E.)

J. Houliston ..... S. 1898. A.M. 1900.

R. P. Rogers ..... S. 1895. A.M. 1899.

The following Members took the final year at McGill, in 1901, and received Degree of "B. Sc.":—

T. V. Anderson, W. R. McConkey,

F. E. Patterson.

C. E. Cartwright, C.E., contributed a paper, which was published in the Transactions of the Society.

At the request of Professor R. Carr-Harris, an effort was made to have a meeting of certain Members of the Club, for the purpose of looking more fully into the question of "Close Corporation for Engineering Societies," but was not accomplished. The difficulty arose in view of the Members residing in different cities and the impossibility of arriving at a date and place to suit those requested to attend such a meeting. A considerable amount of correspondence took place on the subject in order to arrive at some understanding on the points involved, but it was found that the only satisfactory settlement would be by personal interviews, and which, for above reasons, it was found that circumstances prevented a meeting for this purpose.

No. 45, Inventions.

There will be embodied in the proceedings containing this Report separate accounts relative to two inventions, made by Members, which will prove of interest to those either following the Military or Civil professions. A few notes are submitted herewith, as the reports themselves will be more of a technical nature.

The MacPherson Switch and Frog.

The above Safety Switch and Frog was the invention of Captain D. MacPherson, of Montreal, and is being manufactured by the "MacPherson Switch and Frog Company," Niagara Falls, N.Y., with Canadian Works at Niagara Falls, Ont. He has employed as his Chief Engineer, a graduate of the College in the person of Mr. R. P. Rogers, C.E. He fills the same position to both companies.

The American plant is completed and doing business. The Canadian plant is under construction ; the Town of Niagara gave a bonus of $2,500.00 and free taxes for ten years. It is covered by patents and has won its way into the service of many of the largest Railways in Canada and the United States. The situation of the two plants, owing to their proximity to each other, the use of the same Niagara Electric power, and the ability to avail themselves of the same transportation facilities, makes of them practically one great plant. Both the Canadian and the United States plants are complete within themselves, and for this reason orders are easily interchangeable in case of necessity.

Improvements in Targets for Miniature Ranges.

Major F. M. Gaudet, R.C.A., Superintendent of the Dominion Arsenal, Quebec, invented a new Target and Ammunition to use with it. A private test was held in Quebec, and was of a most practical description, all present having endorsed both the Target and Ammunition.

It was tested at the Drill Hall, Ottawa, in the presence of His Excellency the Governor-General, Hon. Dr. Borden, General O'Grady-Haly, Lord Aylmer, Colonel Pinault, Lieut.-Colonel R. Cartwright, Major P. Weatherbe, and others.

The target, which is calculated to replace the Morris tube, enables shooting to be done indoors, and it is claimed that practically the same results are produced as at a regular field range. The shooting is all carried out at 25 yards, but by an ingenious arrangement, affording a nice instance of mathematical calculation, the target presents to the eye at the different ranges, 200, 500, 600 and 1,000 yards, precisely the same size and appearance as the regular target does at these ranges in the field, it being necessary to raise the sight for firing at the various distances.

The cartridge used in practice with the target contains a reduced charge of powder and a smaller bullet than the

service ammunition, and can be used as a magazine ammunition and likewise as a riot cartridge.

Major Gaudet personally conducted the experiments and fully explained his invention.

Briefly the advantages of his system may be summarized as follows :—

1. It supplies perfectly all field conditions.
2. Is absolutely accurate.
3. Enables each man to use and learn his own rifle.
4. Cartridge makes a fine riot ammunition.
5. Cartridge may be used in magazine.
6. Is much cheaper than Molineux method.
7. Can be manufactured with practically the present Government plant, and consequently has not to be imported.

The General Officer Commanding the Canadian Militia recommended that a number of Targets for 200, 500, 600 and 1,000 yards be printed and distributed with a view of testing the practical advantages of using this target.

No. 46, Bibliography of the Members of the Club.

In the Proceedings for the current year will be found Part 2 of the "Bibliography of the Members," Part 1 having appeared in No. 16, for the year 1899.

Members are reminded that the Bibliography is to include the official reports of Ex-Cadets, and all important articles contributed by them to the Military and Civil periodicals, magazines, journals, transactions and proceed-

ings of Societies, etc., throughout the world, and are requested to keep the Secretary conversant with information of this nature. If greater attention was given to this subject, the list would certainly be much longer, and it is anticipated that for the coming year, Part 3 will be made more interesting in this respect. Members are requested to forward copies of all papers, etc., containing contributions from themselves as indicated above.

No. 47, In Memoriam.

1885.

William Anthony Forster Von Iffland.

1886.

Egerton Edmond Augustus Denison.

1887.

Harold Waldruf Keefer.

1888.

George Toker Barlee.

1890.

Walter Charles Anthony Walkem.

1891.

Huntly Brodie Mackay.

Maurice Ryan.

George William Shaw.

1892.

Charles Franklyn Almon.

William Henry Robinson.

John Alder Newton Smart.

William Grant Stairs.

1894.

Arthur Warren Burnham.

1895.

Somerled Lorn Paterson.

Norman Stuart Ridout.

1896.

Merle Shafto Knight.

William Kirby Young Macaulay.

Percy James Newman.

1898.

William Nassau Clark.

William Edward Cooke.

Henry Cortlandt Freer.

David Bertram Pruyn.

1899.

Thomas Hay Browne.

Robert Brydone Jack.

Harry Sloggett.

Charles Carroll Wood.

Alfred George Godfrey Würtele.

1900.

Thomas Wellington Chalmers.

Charles Albert Hensley.

John Woodburn Osborne.

Henry Ellison Wise.

1901.

Grant Maskelyn Lockhart Gordon.

John Haliburton Laurie.

Charles Frederick William Thomas.

In concluding the Annual Report, I desire to place on record the valuable assistance received from the President and Officers, and from many of the individual, in furthering the welfare of the Club, and to express the hope that this may be continued to even a greater extent for the next year.

With best wishes for the future welfare of the Club,

I have the honour to be,

Gentlemen,

Your obedient servant,

Ernest F. Würtele.

Major, 18th Regiment,

Hon. Secretary-Treasurer,

Royal Military College Club of Canada.

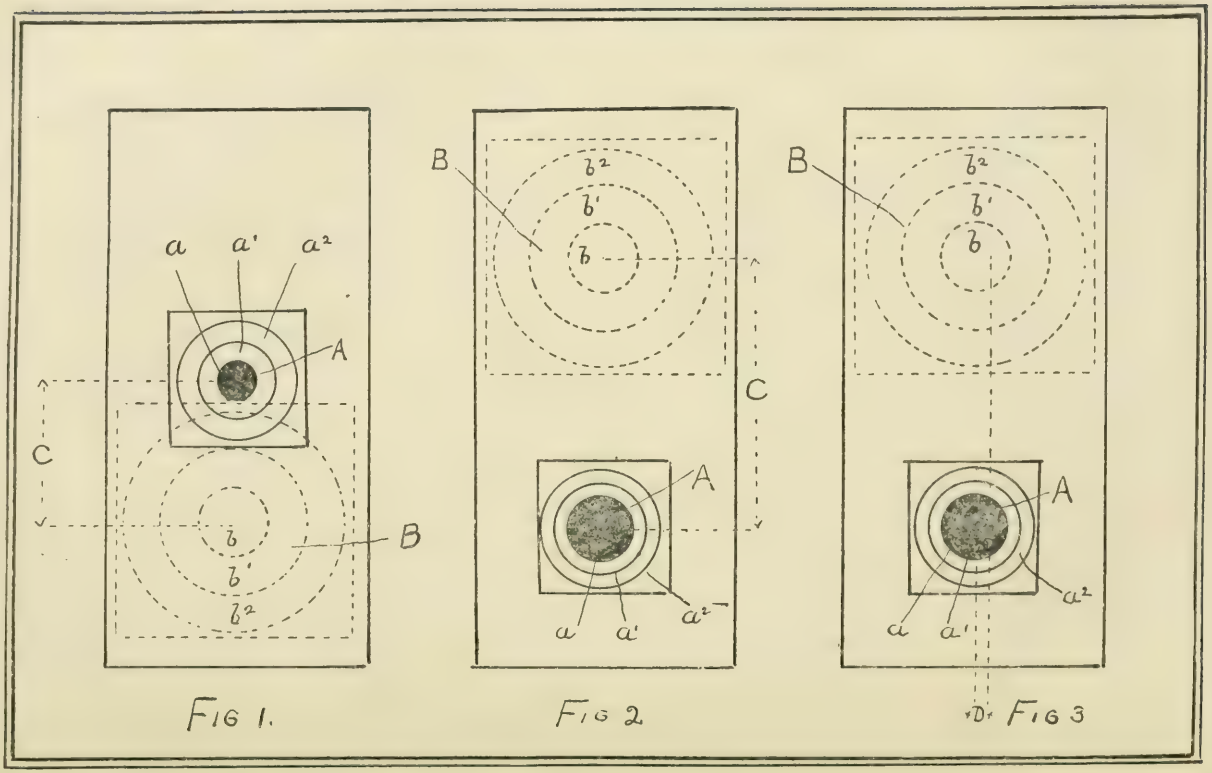
IMPROVEMENTS IN TARGETS

FOR MINIATURE RANGES

By MAJOR F. M. GAUDET, R.C.A.

I, Frederick Mondelet Gaudet, residing at Quebec, in the Province of Quebec, a Major in His Majesty's Regiment of Royal Canadian Artillery and Superintendent of the Dominion Arsenal, do hereby declare the nature of my invention for a new and useful Target for Miniature Ranges, and in what manner the same is to be performed, to be particularly described and ascertained in any by the following statement :—

My invention relates to improvements in targets for miniature ranges, and the object of my invention is to provide a target which shall allow of practice with small arms or ordnance of any description, being carried on in confined or limited places and without the expense entailed by using full-sized ammunition ; and further, to have the said miniature target of such size and arrangement that the skill required to place a shot in any division of the miniature target, when using specially prepared ammunition with reduced charge, will be substantially equal to the skill required to accomplish the same results in any corresponding division of the full-sized target with full sized ammunition ; and further, to provide means whereby the effect of wind is obtained by an apparent deviation of the bullet from the center of the target generally to reproduce in a miniature range the conditions and difficulties which obtain in a full sized range, and it con-


a
a'
a²
A
C
b
b'
b²
B
FIG 1.
B
b²
b'
b
C
A
a
a'
a²
FIG 2
B
b²
b'
b
A
a
a'
a²
D
FIG 3

sists essentially of an aiming target and a scoring target, the vertical distance between whose centers is equal to the distance between the line of sight and the trajectory at their intersection with the plane of the target, the dimensions of the scoring target being such, that the probable number or percentage of hits contained in any figure or division of the target, when using the miniature ammunition, will be exactly equal to the probable number or percentage of hits contained in any figure or division of the full-sized target when using full-sized ammunition, the various parts of the device being constructed and arranged in detail as hereinafter more particularly described.

Figure 1 is a view of my target for miniature ranges, indicating the relative positions of the aiming and scoring targets for use on a miniature range when practising point blank shooting.

Figure 2 is a view of my target for miniature ranges indicating the relative positions of the aiming and scoring targets as used when practising long range shooting.

Figure 3 is a view of my target for miniature ranges, indicating the relative positions of the aiming and scoring targets as used to represent the wind effect on a long range.

In the drawings like letters of reference indicate corresponding parts in each figure.

A is the aiming target comprising the bull's-eye, and the outer rings or zones a^1, a^2, etc. *B* is the scoring target comprising the bull's-eye *b* and the outer rings or zones b^1, b^2, etc. The aiming target *A* is indicated in heavy lines, so as to be plainly visible to the firer. The scoring target *B* is preferably made in light or dotted lines, and is visible only to the marker, in order that the firer will not confuse it with the aiming target. The vertical distance between the centers of the aiming target and the scoring target, which is indicated by the letter *C* in the drawings, is equal to the vertical

distance between the trajectory and the line of sight at their intersection with the plane of the target for any given elevation of the piece, and it is determined experimentally. For example, if practising firing at a point blank range, the line of sight would point straight to the center of the target, whereas the trajectory would drop below the centre of the target, and consequently the center of the scoring target would be placed below the center of the aiming target, and conversely, when practising shooting at a long range on the miniature target, the center of the scoring target will be placed above the center of the aiming target.

The dimensions of the aiming target are determined in proportion to the dimensions of the full-size target, varying inversely as the range to be represented.

The method of calculating the dimensions of the scoring target is as follows :—

The relative accuracy of the ordinary and miniature ammunition is compared by calculating the "probable error" of each, from the "mean of the errors" determined experimentally by well known means, at the ordinary and miniature ranges respectively. Knowing the probable error of ordinary ammunition, the probable number or percentage of hits contained in any figure or division of the target, symmetrical about the center of impact, is calculated.

Conversely from the probable error of miniature ammunition, the dimensions of figures or divisions containing the same number or percentage of hits as the figures or divisions of the full-sized target respectively are calculated to determine the dimensions of the miniature target.

These calculations are performed as follows :—

This demonstration is based upon the principles set forth in the Appendix to Volume II of "A Manual of Spherical and Practical Astronomy," by William Chauvenet, concerning

the Method of Least Squares. Reference is also invited to the article on "Probabilities" of Encyclopædia Britannica.

Let. e = "mean of errors," determined experimentally.

Let. r = "probable error," calculated from mean of errors.

Let. p = constant = 0.4769.

The probability P of obtaining a deviation which does not exceed x in numerical value is obtained by adding the probabilities of obtaining the separate deviations not greater than x. These deviations increase positively from 0 to x and negatively from 0 to $-x$.

Therefore,

$$P = \frac{p}{r\sqrt{\pi}} \int_{-x}^{x} e^{-\frac{p^2 x^2}{r^2}} dx = \frac{2P}{r\sqrt{\pi}} \int_{0}^{x} e^{-\frac{p^2 x^2}{r^2}} dx$$

To put the expression for P in a more convenient form, put $x = \frac{r.t.}{p}$ where t is a new variable introduced, then $dx = \frac{rdt}{p}$

and we obtain $= \frac{2}{\sqrt{\pi}} \int_{0}^{t} e^{-t^2} dt$

For convenience in practice, this integral is evaluated numerically, and the result is tabulated, as will be found on referring to the Authors quoted, or any standard work. Hence to calculate P for a given value of x, *i.e.*, to find the probability of obtaining a deviation, which is not greater than the radius of one of the divisions of the full-sized target, with full-sized ammunition, first find from the relation $t = \frac{0.4769x}{r}$, and then look out the value corresponding to t in the table: this is the value of P. Conversely given, P the probability of not exceeding some unknown deviation x, we determine t from the table, and thence find

$x = \frac{r}{0.4769} t$, expressing x in terms of the probable error. Hence to determine the dimensions of the bull's-eye for the scoring target, I first find experimentally, the mean of the errors of the miniature ammunition, from which is calculated its probable error, then given P, which is the same for the full-sized and the miniature targets, we find the value of t from the tables and the diameter of the bull's-eye $2x = \frac{2r}{0.4769} \cdot t$

A further point of improvements in my target is shown in figure 3, in which the scoring target is set slightly to one side of the aiming target, the object of this being to give the firer practice in adjusting his sights to compensate for the wind, causing a deflection of the projectile. In actual practice the marker will move the scoring target, for example a distance D to the right, and will indicate by a signal to the firer, that the wind is coming from the right, and that he must adjust his sights accordingly. The shooter can then fire one shot to discover the deflection, for which he must make an allowance, after which shot he can make what he considers the proper allowance for the deflection due to the wind.

It will now be seen that I have invented a target for use on miniature ranges, in which the skill required to place a certain number of shots within any division, is substantially the same, as the skill required to place a certain number of shots in a corresponding division of the full-sized target, and in which the effect of wind may be produced, and in general a target, which reproduces the conditions of a full-sized range in a limited space.

It will of course be understood that the target need not be circular in form as shown, but may take any other regular or irregular form, as for example, the figure of a man; and further, during exposure to firing, both the aiming and scoring targets may be fixed or caused to move in any direction, either continuously or intermittently, to represent a moving enemy or animal, as the case may be.

Again, although I have described the method of absolutely determining the correct size for the scoring target, it will be understood that in practice, it is not necessary to rigidly adhere to the dimensions determined by calculation so long as the spirit of the invention is not departed from.

I am aware that prior to my invention, miniature targets have been made, in using which the firer is directed to aim at an aiming spot, thereby causing the projectile to strike targets having the appearance of full-sized targets, the centers of which are placed at a height above or below the line of sight, equal to the height of the trajectory above or below the line of sight; but it will be seen that in such a target the apparent size of the aiming target is not the same as the apparent size of the full-sized target, and further, as the relative accuracies of the full-sized and the miniature ammunition are not taken into account in calculating the size of the scoring target, the probable number or percentage of hits contained in any division of the scoring target with miniature ammunition is not the same as the probable number of hits contained in the corresponding division of the full-sized target with full-sized ammunition.

It will also be understood that I may use an indicating target in connection with my miniature target on which the marker will indicate to the firer the result of his shot, but I do not claim this as my invention, as such device has been commonly used in connection with ordinary targets.

Having now particularly described and ascertained the nature of my said invention, and in what manner the same is to be performed, I declare that what I claim is :—

1. In a target for miniature ranges, the combination with an aiming target of a scoring target of such size, that the skill required to place a shot in any of its divisions with miniature ammunition is equal to the skill required to place a shot in the corresponding division of the full-sized target, with full-sized ammunition, and the vertical distance between

the centers of the aiming target and of the scoring target being equal to the vertical distance between the trajectory and the line of sight at their intersection with the plane of the miniature target, as and for the purpose specified.

2. In a target for miniature ranges, the combination with an aiming target, whose dimensions are in proportion to the dimensions of the full-sized target inversely as the distance to be represented, of a scoring target of such size that the skill required to place a shot in any of its divisions with miniature ammunition is equal to the skill required to place a shot in the corresponding division of the full-sized target, with full-sized ammunition, and the vertical distance between the centers of the aiming target and of the scoring target being equal to the vertical distance between the trajectory and the line of sight at their intersection with the plane of the miniature target, as and for the purpose specified.

3. In a target for miniature ranges, the combination with an aiming target of a scoring target of such size that the skill required to place a shot in any of its divisions with miniature ammunition is equal to the skill required to place a shot in the corresponding division of the full-sized target with full-sized ammunition, and the vertical distance between the centers of the aiming target and the scoring target being equal to the vertical distance between the trajectory and the line of sight at their intersection with the plane of the miniature target and the center of said scoring target lying in a separate vertical from the vertical containing the center of the aiming target, in order to produce an apparent wind effect, as and for the purpose specified.

4. In a target for miniature ranges, the combination with an aiming target of a scoring target, the vertical distance between the centers of said aiming target and said scoring target being equal to the vertical distance between the trajectory and the line of sight at their intersection with the plane of the miniature target and the center of said scor-

ing target lying in a separate vertical from the vertical containing the center of said aiming target, in order to produce an apparent wind effect, as and for the purpose specified.

5. In a target for miniature ranges, the combination with an aiming target of a scoring target of such size that the skill required to place a shot in any of its divisions with miniature ammunition is equal to the skill required to place a shot in the corresponding divisions of the full-sized target with full-sized ammunition, and the dimensions of said scoring target being calculated from the mean of the errors of the miniature ammunition, which is obtained experimentally, for a given miniature range; and the vertical distance between the centers of the aiming target and the scoring target being equal to the vertical distance between the trajectory and the line of sight at their intersection with the plane of the miniature target, as and for the purpose specified.

6. In a target for miniature ranges, the combination with an aiming target, whose dimensions are in proportion to the dimensions of the full-sized target inversely as the distance to be represented of a scoring target of such size that the skill required to place a given number or percentage of shots in any of its divisions with miniature ammunition, is equal to the skill required to place the same number or percentage of shots in the corresponding division of the full-sized target with full-sized ammunition, and the dimensions of said scoring target being calculated from the mean of the errors of the miniature ammunition, which is determined experimentally for a given miniature range; and the vertical distance between the centers of the aiming target and the scoring target being equal to the vertical distance between the trajectory and the line of sight at their intersection with the plane of the miniature target, as and for the purpose specified.

SCHEME OF CALCULATION

— FOR —

Association Targets at 500 yards.

To ascertain the percentage of hits contained by each division of the full-sized target, with service ammunition.

At 500 yards $\epsilon = 6.2$, determined experimentally.

Therefore, $r = 6.2 \times .8453 = 5.266$

20 Bull's-eye.

$t = \frac{.4769 \times 10}{5.2} = .9169$. Therefore bull's-eye contains 80% of hits.

30 Inner.

$t = \frac{.4769 \times 15}{5.2} = 1.374$. Therefore inner contains 94% of hits.

40 Magpie.

$t = \frac{.4769 \times 20}{5.2} = 1.832$. Therefore magpie contains 99% of hits.

Target 6 feet square.

$t = \frac{.4769 \times 36}{5.2} = 3.298$. Therefore target contains over 99% of hits.

Conversely, to calculate the dimensions of a Miniature Target, containing the same percentage of hits, with Gallery Practice ammunition as the full-sized target.

At 25 yards, $\epsilon = .743''$, determined experimentally.

Therefore, $x = .7433 \times .8453 = .6282''$

Bull's-eye, 80%,

$$x = \frac{.6282 \times .9160}{.4769} = 1.207'' \quad \text{Therefore diameter} = 2.41''$$

Inner, 94%,

$$x = \frac{.6282 \times 1.374}{.4769} = 1.81'' \quad \text{Therefore diameter} = 3.62''$$

Magpie, 99%,

$$x = \frac{.6282 \times 1.83}{.4769} = 2.41'' \quad \text{Therefore diameter} = 4.80''$$

Target, over 99%,

$$x = \frac{.6282 \times 3.298}{.4769} = 4.34'' \quad \text{Therefore is target 8.68'' square.}$$

The MacPherson Safety Switch and Frog.

Invented by Captain Duncan MacPherson, R.O.

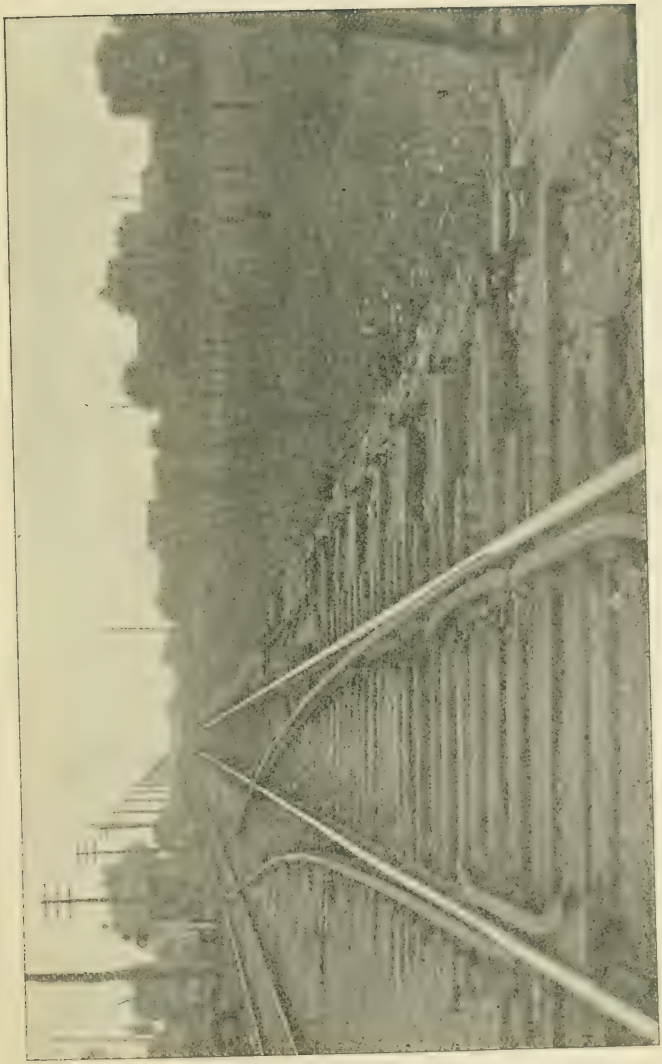
Its Purpose, Utility and Adaptability to the Necessities of all Steam and Electric Roads.

The following cuts and description are designed to demonstrate and prove the superiority of the MacPherson Switch and Frog. It is compact, simple and economical. It ensures absolute safety to trains running under highest speed, as main line rails are perfectly clear and continuous and fully spiked at both Switch and Frog. No parts of frog or switch are touched by wheels, except when using sidings. It is equally suitable for single, double or quadruple tracks.

This device is based on the common sense economical principle that switches and frogs, being the most expensive and least durable points in railway track, should not have any of their parts subjected to the destructive and useless wear of trains passing on the main track, but that their parts should only be touched by trains going into or coming out of sidings. With present devices this useless wear is enormous.

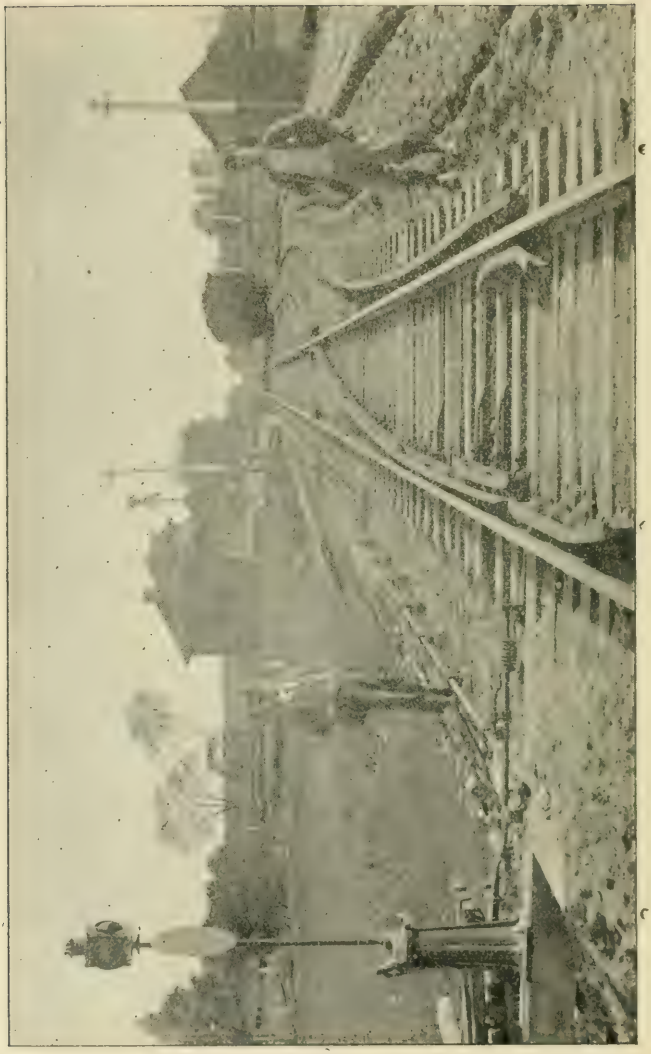
Wear on Road due to Old Method.

When switch is set for main line, all parts of frog and switch are well clear of main track rails, which latter are fully spiked, and absolutely as continuous and firm as if no frog or switch were there. This forms a perfect protection



MacPherson Safety Switch and Frog Set for Siding.

against accidents from broken or foul switch rails or frog points, which are the most dangerous parts in a railway track.



MacPherson Safety Switch and Frog Set for Main Line Clear.

Competent judges say that fully 90 per cent. of the wear on ordinary frogs and switches is occasioned by the useless and destructive impact of passing main line trains, whereas

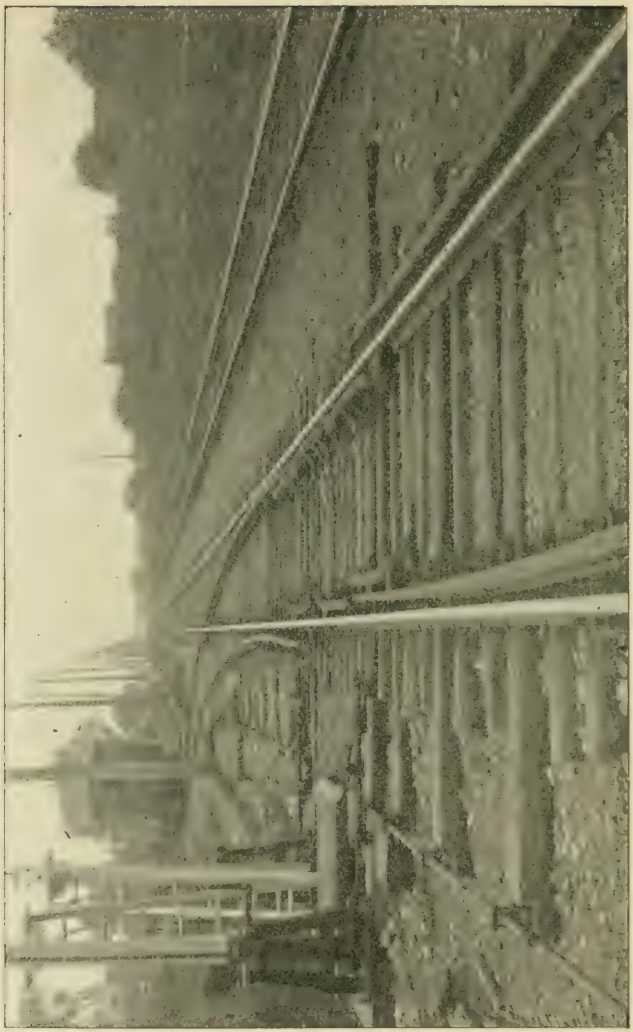
by the use of the MacPherson device, which does not come in contact with main line rail except for the purpose and at the time of switching trains to sidings, this unnecessary loss is obviated.

Wear on Rolling Stock due to Old Method.

Again, as the main line is solid, fully spiked and continuous, a large amount of wear and tear on rolling stock is saved, and there is no discomfort to passengers occasioned by the jolting and jarring of fast trains running on main line over switches at a high rate of speed. There is also no liability to breakage of wheels by jolting or bumping when passing by the MacPherson switch and frog, and no possible liability to accident, from an open switch or defective frog or switch point.

The guard rail, upon which trains depend for safe passage over the spring rail or rigid frog, also forms an objectionable feature. The sudden lurching of trains when passing over these points is frequently the cause of broken axles. The rolling stock, especially foreign cars, requires constant inspection on account of the variable wheel gauge, which has so often occasioned serious wrecks at the moment of passing through the guard rail and frog. The lateral pressure of trains upon the guard rail gradually forces it out of position and necessitates its being respiked. The recurrence of this soon renders the tie incapable of holding a spike, and it has to be replaced.

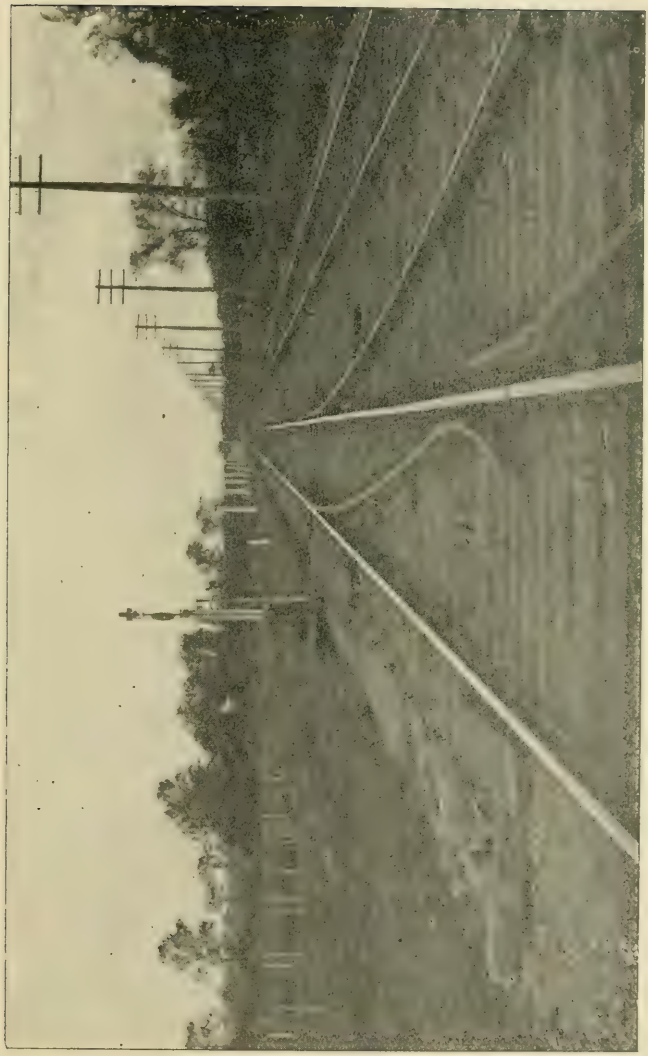
Hence, to maintain safety, both guard rail and frog require constant attention on the part of trackmen or serious accidents are the outcome of such neglect. The MacPherson device does away with the use of any form of frog in main track and its attendant guard rail, and consequent liability to accidents and danger from these sources is, therefore, entirely eliminated.



MacPherson Safety Switches and Frogs Set for Main Line Clear.

Estimated Saving due to MacPherson Device.

The amount of wear again depends upon the traffic, and other things being equal, upon the material used in switches,



MacPherson Safety Frog and Switch Set for Main Line Clear.

etc., but an ordinary main line frog and switch, with stand, guard rails, and all connections, costs about $80.00, of which the least durable parts, the frog and switch rails, cost about

$20.00, and will last, on an average, about two years, and be worth about $5.00 as scrap steel. The cost per year for frogs and switch rails would, therefore, be 2 3 6,000 20 2 = $40,000.00, for 6,000 miles of track and a switch every 1½ miles.

Deducting $10,000 for value of scrap, the balance of $30,000 represents the annual waste of money, 90 per cent. of which, or $27,000 would be saved by the MacPherson invention. Capitalize this sum at five per cent. and it amounts to $540,000, which is the real value of the device to one railway company of 6,000 miles for track maintenance alone.

To this should be added an equal sum for the extra safety provided and the saving of wear on rolling stock; to say nothing of the additional comfort to passengers on trains, that there is no possibility of derailment through an open switch or through a defective frog or switch point, or through a switch left set wrong. This adds greatly to the efficiency of such a road in speed and safety. What its value would be for the 200,000 miles of railway in Canada and the United States is a simple sum in proportion and comes to over $36,000,000.

Maximum of Safety attained by MacPherson Device.

The history of railroading shows that frequent and terrible accidents have been caused by foul, defective, open or wrongly set switches. Such accidents are rendered impossible by the MacPherson invention, as the switch and frog are combined in such a way that setting one automatically sets the other, and if, through mistake or malice, left set wrong, a train passing through in either direction would not be derailed.

Mechanism of New Device.

The connecting rod spring, which is a part of the patent of the MacPherson Switch and Rod, is of a specially adjust-

able design, covered by patents, and is locked by a pin, which serves the double purpose of making the connecting rod a rigid one for ordinary use, and provides safety in the event of the switch having been set wrong and run through by a train, as the shearing of the pin allows the spring to work, and also records the passing of the train. This is a very important advantage over other systems. In other safety switches, where no such record is left, switchmen are apt to get careless and often use switches set wrong to save themselves the trouble of throwing them, a most reprehensible practice, as the best safety devices are only supposed to be used set wrong as a last resort, and will be destroyed much sooner if habitually used in this way for shunting purposes.

This device is only intended for use on main track locations, and not for shunting or freight yards. It could also be very useful in another and special way on double track roads, to lay temporary tracks around wrecks blocking one of the tracks. It could be used in this way without breaking or disturbing either of the tracks, thus saving time when time is most valuable.

In points of novelty, safety and economy the MacPherson switch and frog is superior to all other devices, and the cost of manufacture is practically no greater than that of the frog and switch ordinarily in use.

The invention has been most thoroughly and successfully tested by the Canadian Pacific Railway, which road began in 1894 with the installation of one switch and frog, increasing gradually each year until finally they bought the right to use the MacPherson switch and frog on their whole system, having adopted it as a standard. They now have about 600 in use, and are installing others as fast as practicable, particularly on the divisions where fast through trains are run. The St. Lawrence and Adirondack division of the New York Central Railroad equipped their main line from Adirondack Junction to Malone with the earlier patent in 1896. Over

the whole of the Montreal and Ottawa section of the Canadian Pacific Railway, upon which road trains daily cover one hundred and thirteen miles in two hours and fifteen minutes, or at the rate of over fifty miles an hour, the MacPherson device has been in constant use for some time, and recently a total equipment has been ordered.

Advantages of New Device.

The salient points of advantage of this device may be summed up as follows :—

1st. Main line rails are fully spiked and unbroken at both switches and frogs, so that trains may pass safely and smoothly by them at 100 miles per hour, or at any speed.

2nd. Switches cannot be left set either by mistake or malice to derail trains running on main line, thus giving absolute protection to fast trains.

3rd. Main track rails are free to expand in either direction, without the possibility of foul or tight switch rails, as both these rails are well clear of main rails when set for main line.

4th. Only trains taking sidings touch switch rails or frog, thus saving 90 per cent of wear on two most expensive points in track.

5th. The wear and tear on car wheels and rolling stock is reduced to a minimum and there is no risk of breakage. In ordinary running a slight groove is formed on the head of the car wheels, which greatly jolts or bumps the car as it goes over the old style frog, and sometimes causes accidents by breaking the wheels when trains are running at a high rate of speed. The possibility of this is entirely avoided.

6th. Increased comfort to passengers on fast trains, who are not jolted or shaken up, as in the case when passing at a high rate of speed over the old style frog and switch.

7th. Connections can be adapted to almost any kind of switch stand, thus saving the cost of new ones.

8th. Switch and frog can be made as cheaply as ordinary safety switches and frogs, and last many years longer, because only touched when using sidings.

9th. The switch can be used with a common or a spring frog, if desirable, or the frog with a split or common switch, and either with or without the spring or connecting rod.

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